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Now Includes Selecta-Link™
Digital Products

**Fiber Optic Communication
for
VIDEO - VOICE - DATA**

Welcome To The American Fibertek, Inc. Selecta-Link Catalog



American Fibertek manufactures and markets over 2000 products providing **Video**, **Audio**, and **Data** transmission solutions for a wide variety of security and communication applications. A product selection this large, offers many products for each application. Within this catalog are the units we feel are appropriate to specify in most new applications. Legacy issues and/or a preference for another **AFI** product may dictate that you choose a unit whose spec sheet is not found in this catalog. In that case, and for your convenience, there is a **Product Directory** at the end of this catalog listing all current AFI products. If the product you need is listed there but not in this catalog, you can simply go to our website at www.americanfibertek.com and download it. If that is inconvenient, call us and we will e-mail or fax the appropriate spec sheet to you. In the unlikely event that your unit isn't listed there, please call us and we'll guide you to the appropriate replacement.

Another feature of this catalog is a tutorial entitled "**History and Application**". This is a basic introduction to fiber optics. If this is your first exposure to fiber optics, you will find it informative. If you are already experienced in fiber optic specification and installations, you may find it a nice quick refresher. I encourage you to read it. A loss budget reference sheet listing the commonly accepted attenuation values for components in a fiber optic link, and a calculation sheet are also included for your assistance and convenience.

Last but not least, following the table of contents is a condensed and modified version of our popular product selection guide. These Selecta-Link sheets list our suggested solution for common applications. This was developed as another tool to assist you in specifying our products. **Again these are condensed selection guides, if you don't find the solution for your applications simply contact us and we will be happy to assist you in choosing the appropriate product.**

I hope you enjoy this catalog as well as find it useful. As always thank you for choosing American Fibertek, Inc.

Sincerely,

Jack Fernandes
President

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Featuring *Selecta-Link* Products for Video, Voice & Data



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Video Systems



FM Video Systems



Bidirectional Systems



Multichannel Systems



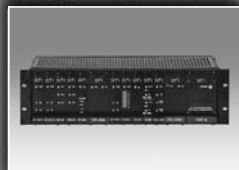
Multichannel Bidirectional Systems



Data Systems



Custom Solutions



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History and Application

FIBER OPTICS A NEW TECHNOLOGY?

Using light for communications is not new. Sailors used lamps to communicate ship to ship by Morse code. In fact Navy signalmen are still required to demonstrate this proficiency. This is however, a long way from today's advanced optical communication systems.

Early experiments more than 100 years ago demonstrated the principles of guiding light through a transparent medium. This was done using water and bending the light to match the flow. Although crude, this same principle is repeated daily through complex communication systems.

A decade later, Alexander Graham Bell received a patent for a device called the photophone. Bell's device used unguided light to convey speech. This was accomplished using a series of lenses and mirrors to focus and modulate the light. Bell managed voice transmission of more than 600 feet.

It was almost one hundred years before the telephone companies ambitiously started construction of massive complex telecommunication systems. Significant advances had to take place to produce the lasers, semiconductor components, and glass fiber cable to take advantage of the many possible benefits of a fiber system.

New fiber optic installations are being deployed at a rate of 2,000 miles per hour. That's right, per hour according to statistics from Lucent Technologies. Trunk and branch applications are bringing fiber to the customer's premises, allowing for such applications as security, surveillance, access control and video distribution as well as telecommunications, information networking, industrial control and internet access. Today, fiber

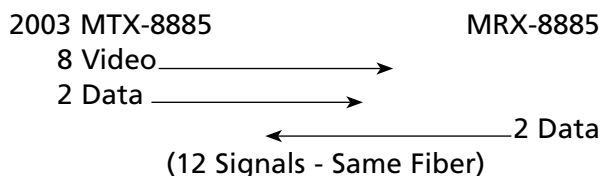
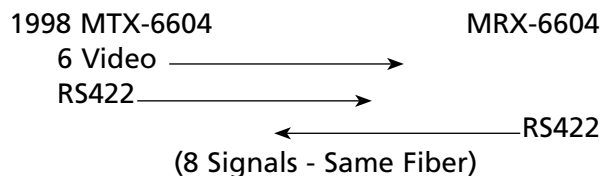
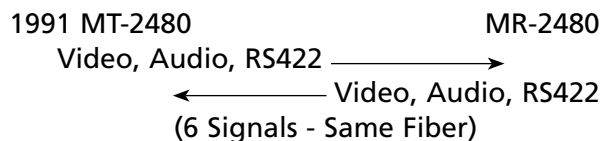
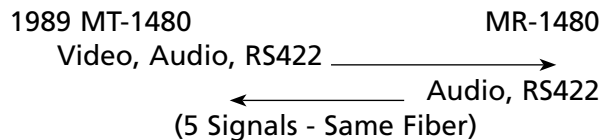
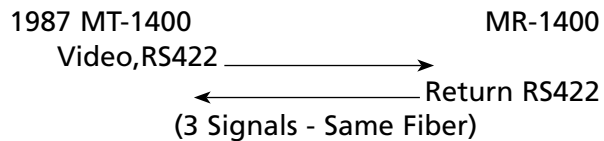
optics is leading the bandwidth hungry technology explosion.

THE ADVANTAGES OF FIBER

The most commonly asked questions about fiber systems revolve around "how far can a signal be carried?" and "how many signals can I put on one fiber?" These questions only highlight two of the many advantages fiber offers over conventional metallic cabling systems.

The use of coax is perhaps the most limiting part of any video or data transmission system. In terms of video, 1000 ft. is the quality limit of standard RG-59U. In truth, signal degradation starts at the point when a signal enters the cable. High frequencies are affected more than lower frequencies and results in loss of picture resolution. Therefore, distance is a very important benefit of fiber systems. It is possible to drive a video signal 3-5 km with a simple baseband system and there is virtually no degradation of a video signal. American Fibertek can offer a system that will allow a signal to travel sixty (60) miles with no repeater or loss of signal clarity.

Fiber cable has high bandwidth capacity. Once a backbone is installed, there is a tremendous increase in the potential to move information. American Fibertek provides equipment that takes advantage of this capacity. In fact, our product development strategy has always focused on saving fiber and utilizing existing cable. For example, if a single multimode fiber had been deployed in 1984, a customer—simply by changing one electronic component at each end—would have been able to upgrade as follows:



These advancements have increased transmission capacity on one multimode fiber by a factor of sixteen times in twenty-two years and we see no reason for that to cease. Newer style singlemode fiber has an even higher available bandwidth; with one strand of fiber easily transmitting up to 64 signals using standard fiber equipment.

We provide electronic fiber optic solutions for complex system needs.

Other benefits of fiber include:

- Small size and weight.
- Complete protection from lightning.
- NEC (National Electric Code*) approval.
*Please consult the NEC handbook.
- Total electrical isolation with no chance of ground loops or ground potential shifts, plus safety from sparking and shock.
- Immune to EMI and RFI.

Finally fiber optic systems are immune from any electronic "bugging." It is the most secure method of signal transmission available today.

MULTIMODE VS. SINGLEMODE

The glass fiber used in fiber optic transmission consists of a central core upon which the signal is carried and a surrounding cladding which has a lower refractive index to contain the signal within the core. The cladding in most fiber today has an outside diameter of 125 microns. In comparison, the diameter of an average human hair is 85 microns. There are two popular sizes currently for the core diameter, 62.5 micron and 9 micron. The 62.5 micron fiber is called multimode fiber, the 9 micron fiber is called singlemode fiber. Based on the names given these fibers, first impressions would be that multimode fiber would be more efficient than singlemode fiber. However, the reverse is usually true.

The term multimode comes from the fact that light can travel in more than one path through the core of this fiber. The relatively large core allows light to travel both straight down the center or to bounce from side to side in a zigzag pattern. Light traveling from side to side takes longer going down the fiber than light traveling straight so the signal at the end of the fiber is dispersed. This dispersion effect does not become significant until the signal has traveled long distances such as a mile or more, or when data bits are packed close to each other.

The relatively small core found in singlemode fiber only allows one path of light directly down the center of the core. This keeps the signal intact for distances in excess of tens of miles.

Since singlemode fiber is half the cost of multimode fiber and it has more efficient signal transmission, the obvious question is why use multimode? The answer is that the overall cost of an application is generally less expensive when done in multimode. This is because the transmitters and receivers required to convert electronic signals to fiber optic signals are three times more expensive in singlemode than in multimode.

Camera and control systems used in most security and surveillance designs typically use multimode optics. The low speed data used in these systems allows for distances to three miles with the lower cost optics. Intercom and contact closure used for gates and alarms can also be transmitted up to three miles on multimode fiber. For long distance projects such as traffic management and distance learning, the extended range and increased bandwidth of singlemode optics is the transmission of choice.

Therefore, when designing a high data throughput for long distance application, a singlemode system is preferred. When designing an application with moderate data throughput, multimode is more economical.

THE FIBER OPTIC SYSTEM AND LOSS BUDGET

The Fiber Optic Transmission System is made up of three components:

- Transmitters
- Receivers
- The Interconnect

Transmitters have a measured optical output power, while receivers are measured in sensitivity. To calculate the system gain or loss budget, simply subtract the receiver sensitivity from the transmitter average output power. We have calculated this number for you and listed it on our product sheets under Optical Loss Budget. This is the maximum allowable loss between a transmitter and receiver. The system loss budget must be adjusted for several factors. These include:

- Operating margin
- Repair margin

The operating margin allows for conditions of temperature change and component aging.

The repair margin accounts for any potential damage that a cable may incur. American Fibertek recommends that 3dB of system margin be left to cover any of these circumstances.

The interconnect consists of the fiber optic cable, connectors and any splices that are required to complete a fiber system installation. Standard cable attenuation is published as part of the performance specifications of cable. Connector losses for systems planning may vary by connector type. We strongly recommend the ST type connector for multimode and the FC/PC type connector for singlemode.

Splices may vary according to the type chosen. The lowest loss would be incurred using a fusion splice. A good one is almost transparent. The highest loss would be experienced when two connectors are mated in a passive coupler. Coupler loss can exceed the 1dB range. Please see the following chart on Loss Budget Parameters.

Fiber	850 nm	1300 nm	1550nm
Multimode	3dB/Km	1.5dB/Km	1.0dB/Km
Singlemode		0.5 dB/Km	0.35 dB/Km

Splices

Passive Coupler	1 dB
Mechanical	0.5 dB
Fusion	<0.2 dB

Connectors 0.5 dB

To calculate a system loss budget let's use the following example: The ten video cameras in Building A are being transmitted to Building B's control room. Building B is located 2500 meters from Building A. One (1) kilometer of cable is of buried armored construction and the other 1.5 kilometers is of aerial construction. Buildings A and B both have patch panels located where the fiber enters the building and patch cords or jumpers are used to connect the transmitters and receivers to the fiber backbone. The transmitters are modules, American Fibertek part #MTM-300C and the receivers are rack mount, American Fibertek part #RRM-33C. The connectors are ST type. There is a mechanical splice where the aerial and buried cables are connected.

SAMPLE CALCULATION

LOSS BUDGET (SYSTEM)	12.0 dB
Operating Margin Allowance (Industry wide recommendation)	(-3.0 dB)

CABLE ATTENUATION

Armored Burial @ 1.5 dB/Km	(-1.5 dB)
Aerial Cable @ 1.5 dB/Km	(-2.3 dB)

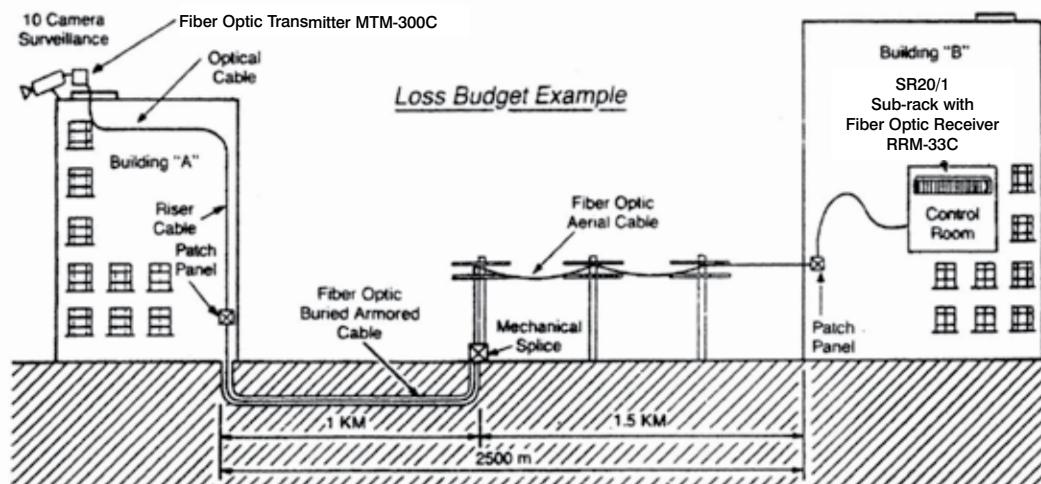
SPLICE LOSS

Patch Panel Building A	(-1.0 dB)
Mechanical	(-0.5 dB)
Patch Panel Building B	(-1.0 dB)

ADDITIONAL MARGIN 2.7 dB

The system still has 2.7 dB of available budget before you approach the operating margin. Calculating a system loss budget requires knowledge of the transmitter and receiver specifications as well as the cable infrastructure. Cable length, installation technique, number and type of splices, and equipment connector type must all be considered to engineer the system. Specifying the components you need to build a fiber system can be tricky given the wide range of solutions available.

American Fibertek, Inc. is committed to providing the best fiber optic equipment, training and technical support available. **We encourage you to contact us.**



SELECTA-LINK VIDEO PRODUCTS

VIDEO TRANSMISSION

FIBER APPLICATION				AFI SOLUTION					
CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET	OPTICAL CONNECTOR	AFI LINK	SELECTA- LINK PAGE	RACKMOUNT VERSION		
1 VIDEO	1	MULTIMODE	12 dB @ 850 nm MAXIMUM 2.5 KM	ST	MTM-100C or MTM-1C to MRM-100C	12 & 15	RTM-100C & RRM-100C	RTM-30C & RRM-30C are 3 channels per card versions of the M100C series	ALL RACKMOUNT UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK. THE SR-20D/2 HAS AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).
1 VIDEO	1	MULTIMODE	12 dB @ 1300 nm	ST	MTM-300C or MTM-3C to MRM-300C	13	RTM-300C & RRM-300C	RTM-33C & RRM-33C are 3 channels per card versions of the M300C series	
1 VIDEO	1	SINGLEMODE	12 dB @ 1300 nm	ST	MTM-300C-S to MRM-300C-S	14	RTM-300C-S & RRM-300C-S	RTM-33C-S & RRM-33C-S are 3 channels per card versions of the M300C-S series	
4 VIDEO	1	MULTIMODE	6 dB @ 1300 nm MAXIMUM 2.5 KM	ST	MT-404C to MR-404C	16	RT-404C & RR-404C	Rackmount versions use two card slots	
4 VIDEO	1	MULTIMODE	12 dB @ 1300 nm MAXIMUM 5 KM	ST	MT-440C to MR-440C	16	RT-440C & RR-440C	Rackmount versions use two card slots	
4 VIDEO	1	SINGLEMODE	12 dB @ 1300 nm	FC/PC	MT-440C-SL to MR-440C-SL	17	RT-440C-SL & RR-440C-SL	Rackmount versions use two card slots	
8 VIDEO	1	MULTIMODE	12 dB @ 1300 nm MAXIMUM 5 KM	ST	MRT-880C to MRR-880C	18	UNITS TO THE LEFT OF THIS BOX ARE 1RU MODULE OR RACKMOUNT AND INCLUDE A UNIVERSAL POWER SUPPLY (100-240 VAC).		
8 VIDEO	1	SINGLEMODE	12 dB @ 1300 nm	FC/PC	MRT-880C-SL to MRR-880C-SL	18			
FOR APPLICATIONS NOT COVERED, PLEASE CONTACT AMERICAN FIBERTEK, INC.									

FOR APPLICATIONS NOT COVERED, PLEASE CONTACT AMERICAN FIBERTEK, INC.

SELECTA-LINK PTZ PRODUCTS

VIDEO TRANSMISSION WITH BI-DIRECTIONAL DATA

FIBER APPLICATION					AFI SOLUTION				
PTZ CONTROL CODE	CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET	OPTICAL CONNECTOR	AFI LINK	SELECTA-LINK PAGE	RACKMOUNT VERSION	
SENSORNET	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-61 to MRM-61	20	RTM-61 & RRM-61	ALL RACK UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK. THE SR-20D/2 INCLUDES AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).
MANCHESTER, BI-PHASE	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1200B to MRM-1200B	21	RTM-1200B & RRM-1200B	
RS-422 PELCO "P" CODE, KALATEL, ETC.	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1400 to MRM-1400	22	RTM-1400 & RRM-1400	
PLUG IN RS422 BOARD FOR PELCO SPECTRA-IV DOMES	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1410 to MRM-1410	23	RRM-1410 or RRM-1420	
RS-485 PELCO "D" CODE, ADEMCO VIDEO, ETC.	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1485 to MRM-1485	24	RTM-1485 & RRM-1485	
COAX CONTROL COAXITRON, VI-COAX, ETC.	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1605 to MRM-1605	25	RTM-1605 & RRM-1605	
PLUG IN COAXITRON BOARD FOR PELCO SPECTRA-IV DOMES	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1615 to MRM-1605	26	RRM-1605	
PANASONIC UP-THE- COAX	1 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTM-1605P to MRM-1605P	27	RTM-1605P & RRM-1605P	
RS-485, PELCO "D" CODE, ADEMCO VIDEO, MANCHESTER, ETC	4 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTX-8485C to MRX-8485C	28	UNITS TO THE LEFT OF THIS BOX ARE 1RU MODULE OR RACKMOUNT AND INCLUDE A UNIVERSAL POWER SUPPLY (100-240 VAC).	
RS422, PELCO "P" CODE, KALATEL, ETC & RS232	4 VIDEO 2 DATA	1	MULTIMODE	12dB	ST	MTX-8485C to MRX-8485C	28		
SENSORNET	4 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTX-8410C to MRX-8410C	28		
RS-485, PELCO "D" CODE, ADEMCO VIDEO, MANCHESTER, ETC	8 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTX-8885C to MRX-8885C	29		
RS422, PELCO "P" CODE, KALATEL, ETC & RS232	8 VIDEO 2 DATA	1	MULTIMODE	12dB	ST	MTX-8885C to MRX-8885C	29		
SENSORNET	8 VIDEO 1 DATA	1	MULTIMODE	12dB	ST	MTX-8810C to MRX-8810C	29		
FOR SINGLEMODE & OTHER APPLICATIONS NOT COVERED. PLEASE CONTACT AMERICAN FIBERTEK, INC.									

SELECTA-LINK AUDIO PRODUCTS**BI-DIRECTIONAL AUDIO AND INTERCOM TRANSMISSION**

FIBER APPLICATION				AFI SOLUTION				
AUDIO TYPE	CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET	OPTICAL CONNECTOR	AFI LINK	SELECTA-LINK PAGE	RACKMOUNT VERSIONS
Standard Phoneline & Emergency Phone Systems including Talk-a-phone & Vandalproof	1 AUDIO	1	MULTIMODE	12 dB @ 850 nm	ST	MT-86 to MR-86	31	RT-86 & RR-86
		2				MT-86-2F8 to MR-86-2F8	31	RT-86-2F8 to RR-86-2F8
AIPHONE LEF	1 AUDIO 1 CONTACT CLOSURE	1	MULTIMODE	12 dB @ 850 nm	ST	MT-89A-L to MR-89A-L	32	RT-89A-L to RR-89A-L
BALANCED AUDIO	2 AUDIO	1	MULTIMODE	12 dB @ 850 nm	ST	MT-0880 to MR-0880	33	RT-0880 to RR-0880

RACK UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK. THE SR-20D/2 INCLUDES AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).

FOR APPLICATIONS NOT COVERED, PLEASE CONTACT AMERICAN FIBERTEK, INC.

SELECTA-LINK DIGITAL AUDIO PRODUCTS**VIDEO/ AUDIO TRANSMISSION AND VIDEO/ AUDIO WITH BI-DIRECTIONAL DATA**

FIBER APPLICATION				AFI SOLUTION				
DATA / PTZ CODE	CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET @ 1310 NM	OPTICAL CONNECTOR	AFI LINK	SELECTA-LINK PAGE	RACKMOUNT VERSION
NONE	1 VIDEO 2 AUDIO	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-91P088 to MR-91P088	52	RT-91P088 & RR-91P088
			SINGLEMODE	21dB	FC/PC	MT-91P088SL to MR-91P088SL		RT-91P088SL & RR-91P088SL
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER /BOSCH	1 VIDEO 1 AUDIO 2 DATA	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-91P558 to MR-91P558	53	RT-91P558 & RR-91P558
			SINGLEMODE	21dB	FC/PC	MT-91P558SL to MR-91P558SL		RT-91P558SL & RR-91P558SL
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER /BOSCH	1 VIDEO 1 AUDIO 1 DATA 1 CONTACT CLOSURE	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-91P589 to MR-91P589	54	RT-91P589 & RR-91P589
			SINGLEMODE	21dB	FC/PC	MT-91P589SL to MR-91P589SL		RT-91P589SL & RR-91P589SL
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER /BOSCH	1 VIDEO 1 AUDIO 2 CONTACT CLOSURE	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-91P899 to MR-91P899	55	RT-91P899 & RR-91P899
			SINGLEMODE	21dB	FC/PC	MT-91P899SL to MR-91P899SL		RT-91P899SL & RR-91P899SL

ALL RACKMOUNT UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK. THE SR-20D/2 INCLUDES AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).

FOR OTHER APPLICATIONS NOT COVERED, PLEASE CONTACT AMERICAN FIBERTEK, INC.

SELECTA-LINK DATA PRODUCTS

BI-DIRECTIONAL DATA TRANSMISSION

FIBER APPLICATION					AFI SOLUTION				
DATA / PTZ CODE	CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET @ 1310 NM	OPTICAL CONNECTOR	AFI LINK	SELECTA-LINK PAGE	RACKMOUNT VERSION	
RS485 (2 or 4 wire)	1 DATA	2	MULTIMODE	17 dB @ 850 nm	ST	MX-485 to MX-485	35	RX-485	
			SINGLEMODE	17 dB		MX-485-S to MX-485-S		RX-485-S	
RS485 (2 or 4 wire) Data Repeater	1 DATA	2 FIBERS IN 2 FIBERS OUT	MULTIMODE	15 dB @ 850 nm	ST	MX-485-T to MX-485-T	36	CONSULT FACTORY	
			SINGLEMODE	17 dB		MX-485-T-S to MX-485-T-S		CONSULT FACTORY	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	1 DATA	2	MULTIMODE	18 dB	SC	MX-480 to MX-480	37	RX-480	
		1	MULTIMODE			MTX-480 to MRX-480		RTX-480 & RRX-480	
			SINGLEMODE			MTX-480SL to MRX-480SL		RTX-480SL & RRX-480SL	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	2 DATA	1	MULTIMODE	18 dB	SC	MTX-482 to MRX-482	38	RTX-482 & RRX-482	
			SINGLEMODE	21dB		MTX-482SL to MRX-482SL		RTX-482SL & RRX-482SL	
ETHERNET (10/100 MB/s)	1 DATA	2	MULTIMODE	11 dB REFER TO SPECIFICATION SHEET FOR MAXIMUM DISTANCE LIMITATIONS	SPECIFY SC or ST	MX-45-FX to MX-45-FX	39	RX-45-FX	
		1	MULTIMODE		SC	MT-45-ML-SC to MR-45-ML-SC		RT-45-ML-SC & RR-45-ML-SC	
			SINGLEMODE			MT-45-SL-SC to MR-45-SL-SC	40	RT-45-SL-SC & RR-45-SL-SC	
ETHERNET (1000 MB/s)	1 DATA	2	MULTIMODE	REFER TO SPECIFICATION SHEET FOR LOSS BUDGET AND MAXIMUM DISTANCE LIMITATIONS	SC	MX-47-LX to MX-47-LX	39	RX-47-LX	
						MX-47-LX-SL to MX-47-LX-SL		RX-47-LX-SL	
		1	SINGLEMODE			MTX-47-LX to MRX-47-LX	40	RTX-47-LX & RRX-47-LX	
						MTX-47-LX-SL to MRX-47-LX-SL		RTX-47-LX-SL & RRX-47-LX-SL	
CONTACT CLOSURE	8 CONTACT CLOSURE	1	MULTIMODE	17 dB @ 850 nm	ST	MT-80 to MR-80	41	RT-80 & RR-80	
CONTACT CLOSURE	8 CONTACT CLOSURE	1	MULTIMODE	12 dB	ST	MT-81 to MR-81	42	RT-81 & RR-81	
CONTACT CLOSURE	16 CONTACT CLOSURE	1	MULTIMODE	12 dB	ST	MT-82 to MR-82	43	RT-82 & RR-82	
FOR SINGLEMODE & OTHER APPLICATIONS NOT COVERED. PLEASE CONTACT AMERICAN FIBERTEK, INC.									

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ALL RACKMOUNT UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK.
THE SR-20D/2 INCLUDES AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).

SELECTA-LINK DIGITAL PRODUCTS

VIDEO TRANSMISSION AND VIDEO WITH BI-DIRECTIONAL DATA

FIBER APPLICATION					AFI SOLUTION				
DATA / PTZ CODE	CHANNELS	FIBERS REQUIRED	FIBER TYPE	LOSS BUDGET @ 1310 NM	OPTICAL CONNECTOR	AFI LINK	SELECTA-LINK PAGE	RACKMOUNT VERSION	
NONE	1 VIDEO	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-910 to MR-910	44	RT-910 & RR-910	ALL RACKMOUNT UNITS USE THE SR-20D/2 DIAGNOSTIC CAPABLE SUBRACK. THE SR-20D/2 INCLUDES AN INTEGRAL UNIVERSAL POWER SUPPLY (100-240 VAC).
			SINGLEMODE	21dB	FC/PC	MT-910SL to MR-910SL		RT-910SL & RR-910SL	
SENSORNET	1 VIDEO 1 DATA	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-911 to MR-911	45	RT-911 & RR-911	
			SINGLEMODE	21dB	FC/PC	MT-911SL to MR-911SL		RT-911SL & RR-911SL	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	1 VIDEO 2 DATA	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-913 to MR-913	46	RT-913 & RR-913	
			SINGLEMODE	21dB	FC/PC	MT-913SL to MR-913SL		RT-915SL & RR-915SL	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	1 VIDEO 1 DATA 1 CONTACT CLOSURE	1	MULTIMODE	12 dB MAXIMUM 4 KM	ST	MT-915 to MR-915	47	RT-915 & RR-915	
			SINGLEMODE	21dB	FC/PC	MT-915SL to MR-915SL		RT-915SL & RR-915SL	
NONE	4 VIDEO	1	MULTIMODE	12 dB MAXIMUM 2 KM	ST	MT-940 to MR-940	48	RT-940 & RR-940	
			SINGLEMODE	21dB	FC/PC	MT-940SL to MR-940SL		RT-940SL & RR-940SL	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	4 VIDEO 1 DATA 1 CONTACT CLOSURE	1	MULTIMODE	12 dB MAXIMUM 2 KM	ST	MT-946 to MR-946	49	RT-946 & RR-946	
			SINGLEMODE	21dB	FC/PC	MT-946SL to MR-946SL		RT-946SL & RR-946SL	
NONE	8 VIDEO	1	MULTIMODE	12 dB MAXIMUM 1 KM	ST	MT-980 to MR-980	50	RT-940 & RR-940	
			SINGLEMODE	21dB	FC/PC	MT-940SL to MR-940SL		RT-940SL & RR-940SL	
RS485 (2 or 4 wire) RS422 RS232 or MANCHESTER	8 VIDEO 1 DATA 1 CONTACT CLOSURE	1	MULTIMODE	12 dB MAXIMUM 1 KM	ST	MTX-986* to MRX-986* *See Note Below	51	RT-986 & RR-986	
			SINGLEMODE	12dB	FC/PC	MTX-986SL* to MRX-986SL* *See Note Below		RT-986SL & RR-986SL	
*NOTE: 'MTX' AND 'MRX' STYLE UNITS ARE MODULE OR RACKMOUNT & INCLUDE A UNIVERSAL POWER SUPPLY (100-240VAC).									
FOR OTHER APPLICATIONS NOT COVERED. PLEASE CONTACT AMERICAN FIBERTEK, INC.									

Selecta-Link™



Single & Multichannel Video

▶ Video Products

M100C M1C / M30C SERIES MULTIMODE

afi

Single Channel FM Video Transmission System Low Profile / Mini / High Density



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Small Profile
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level	1 Vpp
I/O Impedance	75 Ohms
Bandwidth	8 MHz
Differential Gain	5%
Differential Phase	5°
SNR	60 dB
Connector	BNC

Optical:

Wavelength	850 nm
Loss Budget (62.5/125μ)	12 dB
Maximum Transmission Distance	2.5 Km
Connector	ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)	
Power Consumption	2 Watts
Rack Card (See AFI Part #: SR-20D/2)	
Power Consumption (M-100)	3 Watts
Power Consumption (M-30)	7 Watts

Size:

Mini Module - 2½" length x 1½" diameter
Low Profile Module - 3" x 2" x 7/8"
Rack Card - 6½" x 1" x 5"

ORDERING INFORMATION:

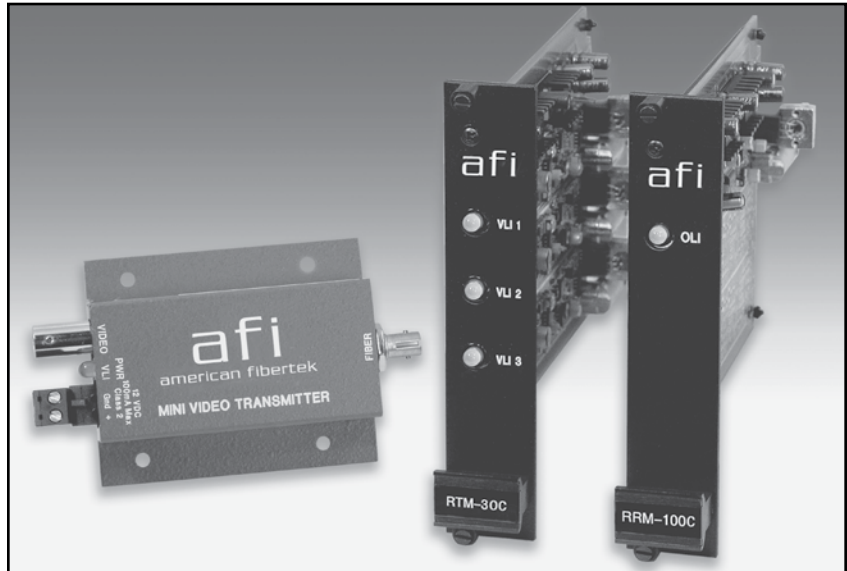
MTM-1C	= Mini Module Transmitter
MTM-100C	= Module Transmitter
RTM-100C	= Rack Card Transmitter
RTM-30C	= 3-up Rack Card Transmitter
MRM-100C	= Module Receiver
RRM-100C	= Rack Card Receiver

Example: MTM-1C to MRM-100C

Example: MTM-1C
MTM-100C to RRM-30C
MTM-100C

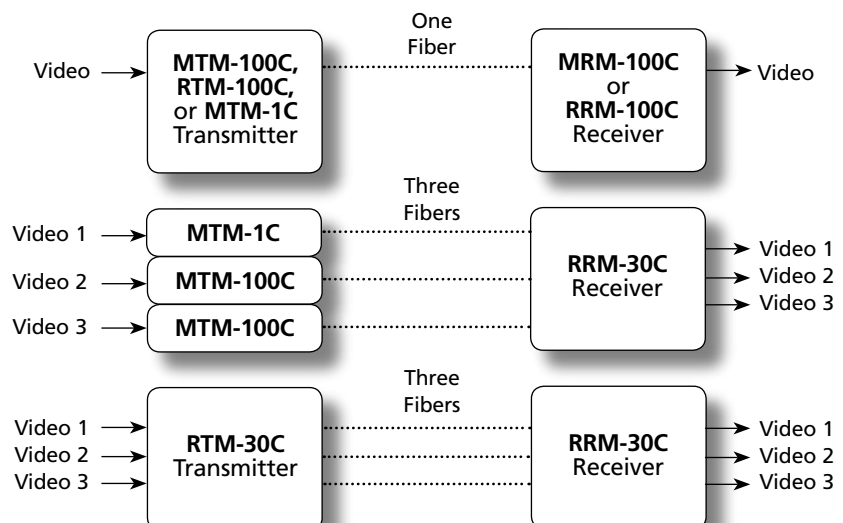
Example: RTM-30C to RRM-30C

Note: This is a High Density Fiber Solution that allows up to 42 videos to be transmitted from one SR-20D/2 subrack to another SR-20D/2 subrack.



The American Fibertek M1C and M100C Series transmit one channel of high-quality, FM video on one multimode optical fiber. The American Fibertek M30C Series transmits three channels of high-quality, FM video on three multimode optical fibers. All units operate at 850 nm and are compatible across the series. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The MTM-1C is a miniature transmitter that is designed to mount directly on the back of a video camera. The M100C Series may be ordered as stand alone low profile modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cage. The M30C Series are ordered as rack cards to be mounted in the SR-20D/2 or SR-20R/1.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

12 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com



Single Channel FM Video Transmission System

Extended Range Low Profile / Mini / High Density

**M300C
M3C / M33C
SERIES
MULTIMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Small Profile
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level 1 Vpp
I/O Impedance 75 Ohms
Bandwidth 8 MHz
Differential Gain 5%
Differential Phase 5°
SNR 60 dB
Connector BNC

Optical:

Wavelength 1300 nm
Loss Budget (62.5/125μ) 12 dB
Connector ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption 2 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption (M-300) 3 Watts
Power Consumption (M-33) 7 Watts

Size:

Mini Module - 2½" length x 1½" diameter
Low Profile Module - 3" x 2" x 7/8"
Rack Card - 6½" x 1" x 5"

ORDERING INFORMATION:

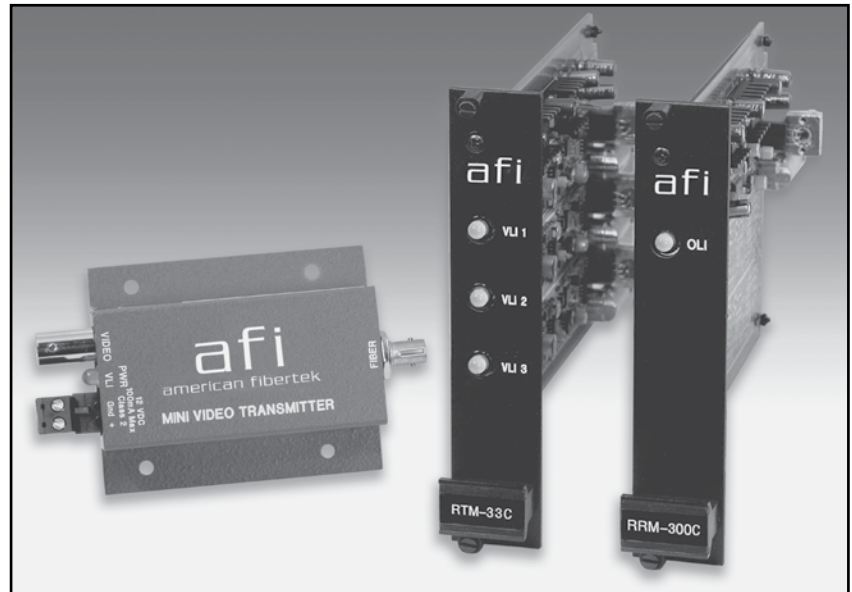
MTM-3C = Mini Module Transmitter
MTM-300C = Module Transmitter
RTM-300C = Rack Card Transmitter
RTM-33C = 3-up Rack Card Transmitter
MRM-300C = Module Receiver
RRM-300C = Rack Card Receiver
RRM-33C = 3-up Rack Card Receiver

Example: MTM-3C to MRM-300C

Example: $\left. \begin{array}{l} \text{MTM-3C} \\ \text{MTM-300C} \\ \text{MTM-300C} \end{array} \right\} \text{to RRM-33C}$

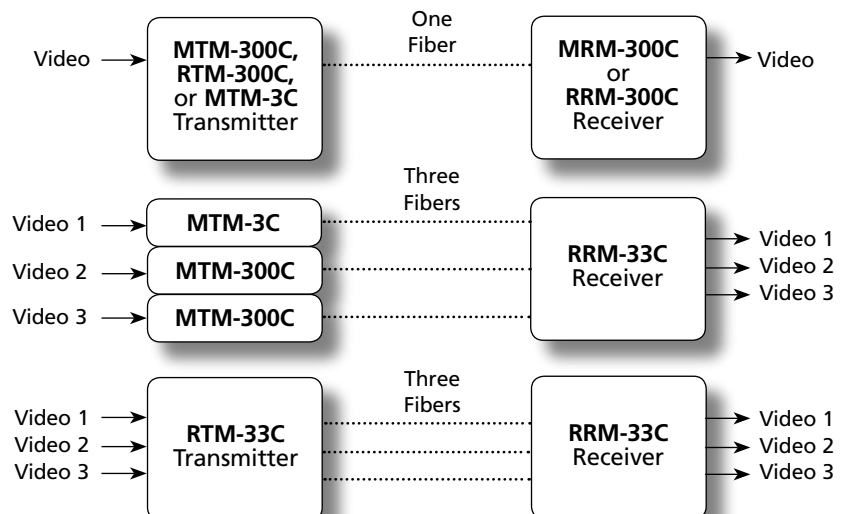
Example: RTM-33C to RRM-33C

Note: This is a High Density Fiber Solution that allows up to 42 videos to be transmitted from one SR-20D/2 subrack to another SR-20D/2 subrack.



The American Fibertek M3C and M300C Series transmit one channel of high-quality, FM video on one multimode optical fiber. The American Fibertek M33C Series transmits three channels of high-quality, FM video on three multimode optical fibers. All units operate at 1300 nm for extended range applications and are compatible across the series. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The MTM-3C is a miniature transmitter that is designed to mount directly on the back of a video camera. The M300C Series may be ordered as stand alone low profile modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cage. The M33C Series are ordered as rack cards to be mounted in the SR-20D/2 or SR-20R/1.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

M300C-S M33C-S SERIES SINGLEMODE

afi

Single Channel FM Video Transmission System Low Profile / Mini / High Density



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Small Profile
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level	1 Vpp
I/O Impedance	75 Ohms
Bandwidth	8 MHz
Differential Gain	5%
Differential Phase	5°
SNR	60 dB
Connector	BNC

Optical:

Wavelength	1300 nm
Loss Budget (9/125μ)	12 dB
Connector	ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)	
Power Consumption	2 Watts
Rack Card (See AFI Part #: SR-20D/2)	
Power Consumption (M-300S)	3 Watts
Power Consumption (M-33S)	7 Watts

Size:

Module - 4 1/2" x 4 1/4" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

ORDERING INFORMATION:

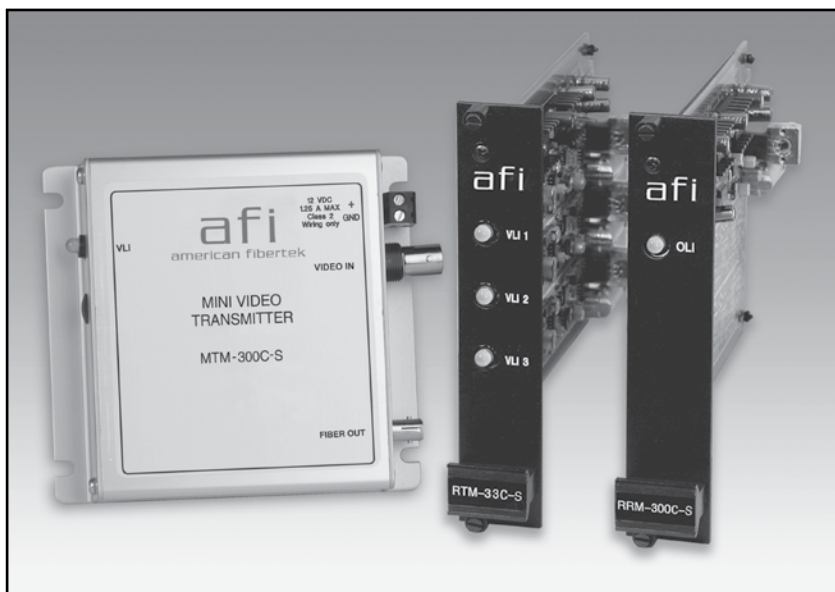
MTM-300C-S = Module Transmitter
RTM-300C-S = Rack Card Transmitter
RTM-33C-S = 3-up Rack Card Transmitter
MRM-300C-S = Module Receiver
RRM-300C-S = Rack Card Receiver
RRM-33C-S = 3-up Rack Card Receiver

Example: MTM-300C-S to MRM-300C-S

Example: MTM-300C-S
MTM-300C-S to RRM-33C-S
MTM-300C-S

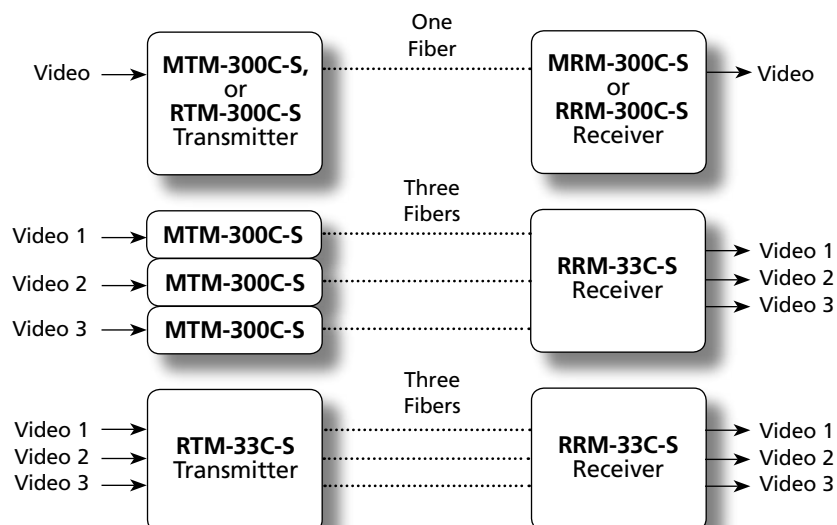
Example: RTM-33C-S to RRM-33C-S

Note: This is a High Density Fiber Solution that allows up to 42 videos to be transmitted from one SR-20D/2 subrack to another SR-20D/2 subrack.



The American Fibertek M300C-S Series transmits one channel of high-quality, FM video on one singlemode optical fiber. The American Fibertek M33C-S Series transmits three channels of high-quality, FM video on three singlemode optical fibers. All units operate at 1300 nm and are compatible across the series. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The M300C-S Series may be ordered as stand alone low profile modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages. The M33C-S Series are ordered as rack cards to be mounted in the SR-20D/2 or SR-20R/1.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

Single Channel FM Video Transmission Kit

Low Profile / Mini

**VK-M100
VK-M1
VIDEO KIT
MULTIMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Small Profile
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level 1 Vpp
I/O Impedance 75 Ohms
Bandwidth 8 MHz
Differential Gain 5%
Differential Phase 5°
SNR 60 dB
Connector BNC

Optical:

Wavelength 850 nm
Loss Budget (62.5/125μ) 12 dB
Maximum Transmission Distance 2.5 Km
Connector ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption (per end) 2 Watts

Size:

Mini Module - 2 1/2" length x 1 1/2" diameter
Low Profile Module - 3" x 2" x 7/8"

ORDERING INFORMATION:

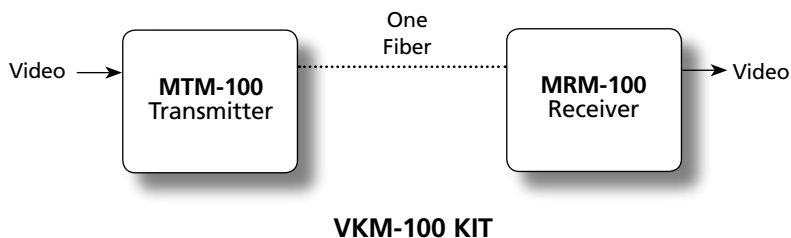
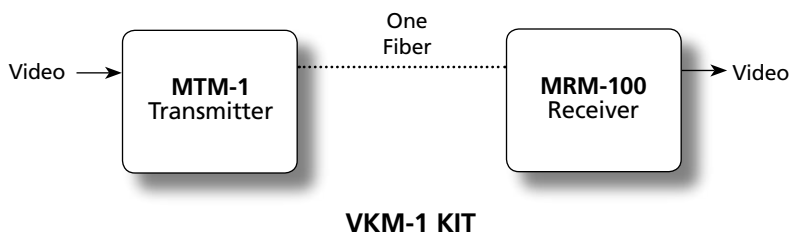
VK-M1 Video Kit Consists Of:
MTM-1 Mini Module Transmitter
PS-12 Power Supply
MRM-100 Module Receiver
PS-12 Power Supply

VK-M100 Video Kit Consists Of:
MTM-100 Module Transmitter
PS-12 Power Supply
MRM-100 Module Receiver
PS-12 Power Supply



The American Fibertek VK-M1 and VK-M100 Video Kits transmit one channel of high-quality, FM video on one multimode optical fiber at 850 nm. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The VK-M1 kit includes the MTM-1 miniature transmitter that is designed to mount directly on the back of a video camera. The VK-M100 kit includes the MTM-100 stand alone low profile modular transmitter. The MRM-100 stand alone low profile modular receiver is included in both kits along with two PS-12 power supplies to power the link.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

404C 440C SERIES MULTIMODE

afi

Single Fiber Four Channel FM Video System



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Modules or Rack Cards
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level 1 Vp-p
I/O Impedance 75 Ohms
Bandwidth 10 MHz
Differential Gain 5%
Differential Phase 3°
SNR 55 dB
Connector BNC

Optical:

Wavelength 1300 nm
Maximum Transmission Distance:
404C Series 2.5 Km
440C Series 5 Km
Consult factory for extended distance version.
Loss Budget (62.5/125µ):
404C Series 6 dB
440C Series 12 dB
Consult factory for extended loss budget version.
Connector ST

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Module - 24 VAC Center Tap (AFI Part#: PS-24-CT-T)
Power Consumption 5 Watts
Rack Card - (See AFI Part #: SR-20D/2)
Power Consumption 5 Watts

Size:

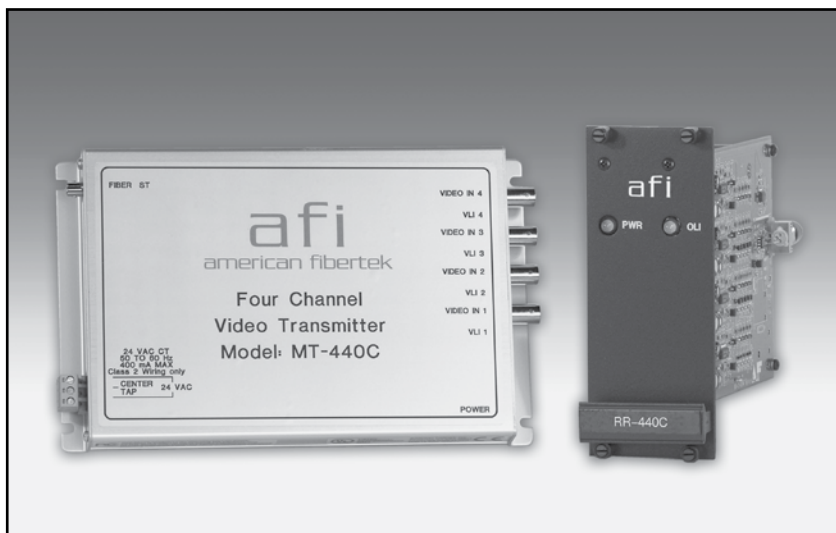
Module - 8⁷/₈" x 5¹/₂" x 1⁷/₈"
Rack Card - 8" x 2" x 5" (requires 2 rack slots)

ORDERING INFORMATION:

MT-404C = Module Transmitter
RT-404C = Rack Card Transmitter
MR-404C = Module Receiver
RR-404C = Rack Card Receiver
MT-440C = Module Transmitter
RT-440C = Rack Card Transmitter
MR-440C = Module Receiver
RR-440C = Rack Card Receiver

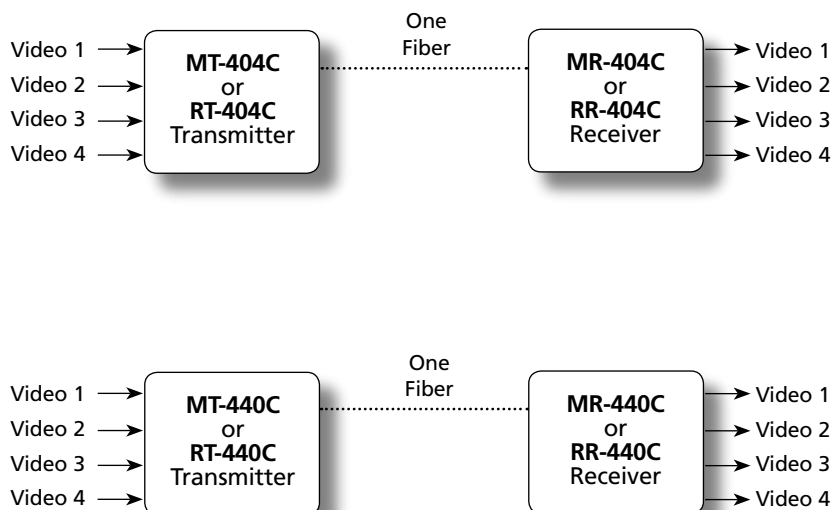
Example:

MT-404C to RR-404C



The American Fibertek 404C and 440C Series transmit four channels of high-quality, FM video on one multimode optical fiber at 1300 nm. The 404C Series can be used in applications up to 2.5 Km (1.5 miles). The 440C Series units can be used in applications up to 5 Km (3 miles). For longer distances, consult factory for an extended range 440C-E version. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The 404C and 440C Series may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

16 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

Single Fiber Four Channel FM Video System

**440C-SL
SERIES
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Modules or Rack Cards
- PFM Video Transmission

SPECIFICATIONS:

Video:

1/0 Level.....	1 Vp-p
I/O Impedance	75 Ohms
Bandwidth	10 MHz
Differential Gain	5%
Differential Phase.....	3°
SNR.....	55 dB
Connector	BNC

Optical:

Wavelength	1300 nm
Loss Budget (9/125μ):.....	12 dB
Connector	FC/PC

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Module - 24 VAC Center Tap (AFI Part#: PS-24-CT-T)	
Power Consumption	5 Watts
Rack Card - (See AFI Part #: SR-20D/2)	
Power Consumption	5 Watts

Size:

Module - 8 ⁷ / ₈ " x 5 ¹ / ₂ " x 1 ¹ / ₈ "
Rack Card - 8" x 2" x 5" (requires 2 rack slots)

ORDERING INFORMATION:

MT-440C-SL = Module Transmitter
RT-440C-SL = Rack Card Transmitter
MR-440C-SL = Module Receiver
RR-440C-SL = Rack Card Receiver

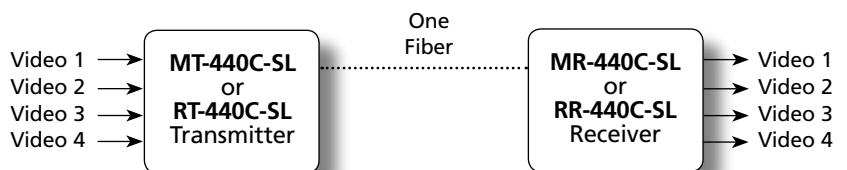
Example:

MT-440C-SL to RR-440C-SL



The American Fibertek 440C-SL Series transmit four channels of high-quality, FM video on one singlemode optical fiber at 1300 nm. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

The 440C-SL Series may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

880C SERIES MULTIMODE SINGLEMODE

afi

Single Fiber Eight Channel FM Video System

8V
→

FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Wall or Rack Mount
- PFM Video Transmission

SPECIFICATIONS:

Video:

1/0 Level.....	1 Vp-p
I/O Impedance.....	75 Ohms
Bandwidth.....	10 MHz
Differential Gain.....	5%
Differential Phase.....	3°
SNR.....	55 dB
Connector.....	BNC

Optical (880C Series):

Wavelength.....	1300/1550 nm
Maximum Transmission Distance:.....	5 Km
Loss Budget (62.5/125μ):.....	12 dB
Connector.....	ST

Optical (880C-SL Series):

Wavelength.....	1300/1550 nm
Loss Budget (9/125μ):.....	12 dB
Connector.....	FC/PC

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Universal Power Input: 85 to 264 VAC
at 47 to 63 Hz, 40 Watts Maximum

Size:

12" Deep x 19" Wide x 1¾" (1RU) High

MULTIMODE ORDERING INFORMATION:

MRT-880C = Module/Rack Transmitter
MRR-880C = Module/Rack Receiver

SINGLEMODE ORDERING INFORMATION:

MRT-880C-SL = Module/Rack Transmitter
MRR-880C-SL = Module/Rack Receiver

Example:

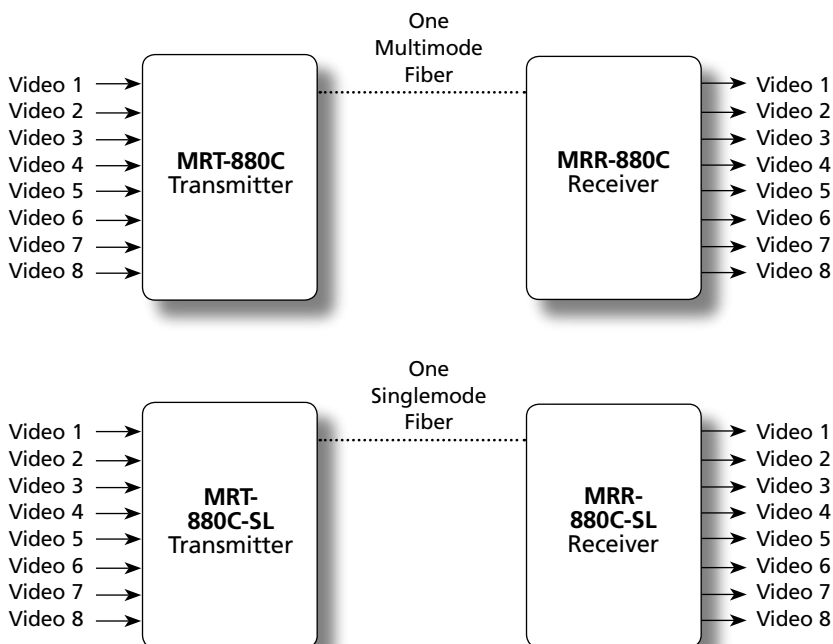
MRT-880C to MRR-880C

Example:

MRT-880C-SL to MRR-880C-SL



The American Fibertek 880C Series transmit eight channels of high-quality, FM video on one multimode optical fiber. The 880C-SL Series transmit eight channels of high-quality, FM video on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Equipment may be mounted as stand alone modules or mounted directly into a standard EIA 19" rack by the position of the mounting brackets.

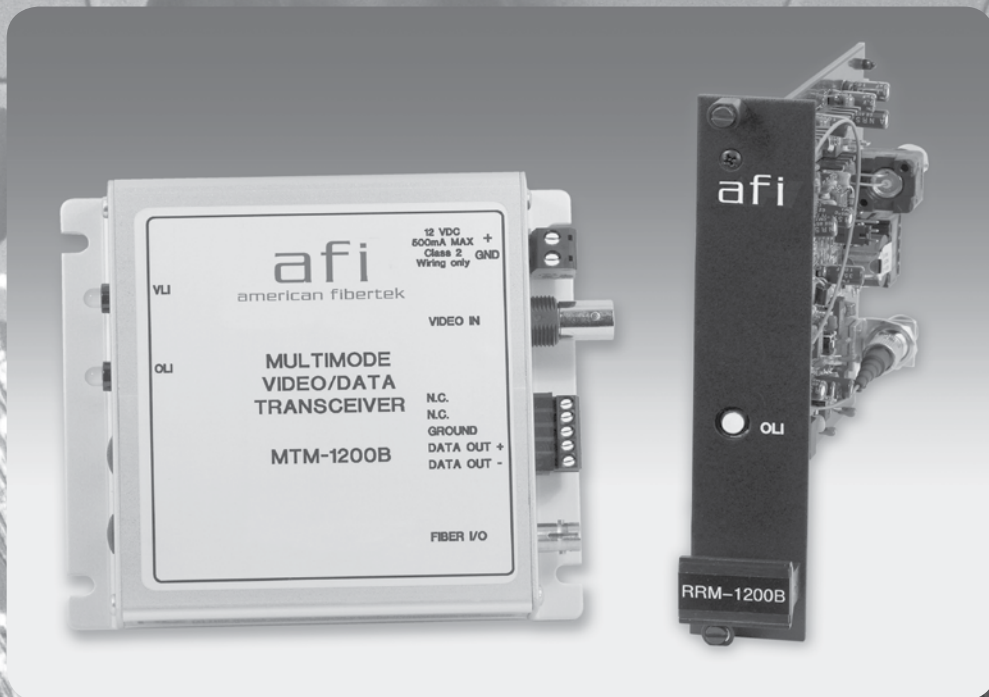


SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

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*Single & Multichannel
Video with Data
For Keyboard & PTZ Control*

▶ Video / PTZ / Data Products

M61 SERIES MULTIMODE

afi

Single Or Dual Fiber Bi-Directional Transceivers Low Profile One Way Video & Two-Way Sensornet



FEATURES:

- Diagnostics: Video, Data, Power and Optical Presence
- Switch Selectable Termination and Fail Safe Bias
- Modules or Rack Cards
- Single or Dual Fiber Alternative

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance75 Ohms
Bandwidth6 MHz
Differential Gain5%
Differential Phase.....3°
SNR.....60 dB
Connector BNC

Data:

Data Rate 230.4 Kbps
Data Connector 5 pin screw terminal

Optical:

Wavelength 850/1300 nm
Loss Budget (62.5/125μ) 12 dB
ConnectorST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption4 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption5 Watts

Size:

Module - 4 1/4" x 4 1/4" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

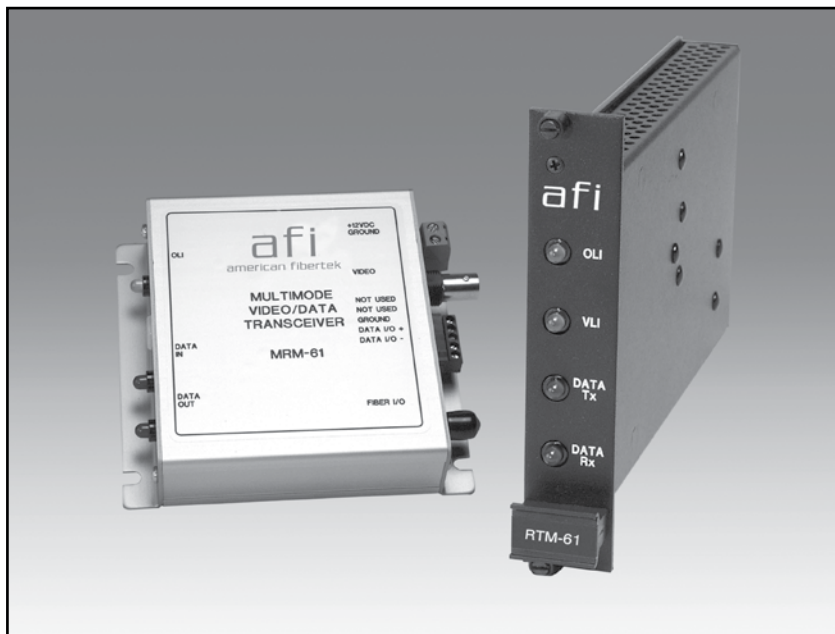
ORDERING INFORMATION:

MTM = Module Transmitter - Field Unit
MRM = Module Receiver - Control Site
RTM = Rack Card Transmitter - Field Unit
RRM = Rack Card Receiver - Control Site

Example:

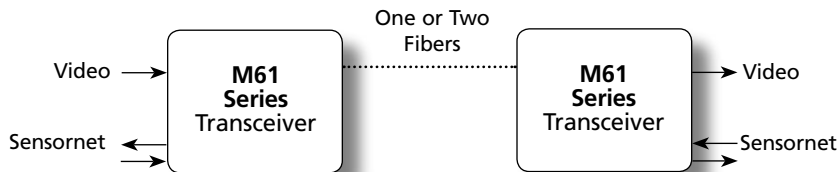
*Single fiber module video TX to rack card RX:
MTM-61 to RRM-61*

*Two-fiber rack card video TX to rack card RX:
RTM-61-2F8 to RRM-61-2F8*



The American Fibertek M61 Series is a low cost, low profile video and bi-directional data transceiver system. The system utilizes one or two multimode optical fibers. Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2, SR-20R/1.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

20 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com



Single Fiber Bi-directional Transceivers - Low Profile One-Way Video with Return AD or Bosch Code

**M1200B
SERIES
MULTIMODE**



FEATURES:

- Video with Return AD or Bosch Code Utilizing One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Optical AGC
- Full Color Transmission

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance75 Ohms
Bandwidth8 MHz
Differential Gain5%
Differential Phase.....5°
SNR.....60 dB
Connector BNC

Data:

Data Rate.....Up to 50 Kbps
Data Connector 5 pin screw terminal

Optical:

Wavelength850/1300 nm
Loss Budget (62.5/125μ).....12 dB
ConnectorST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption4 Watts

Size:

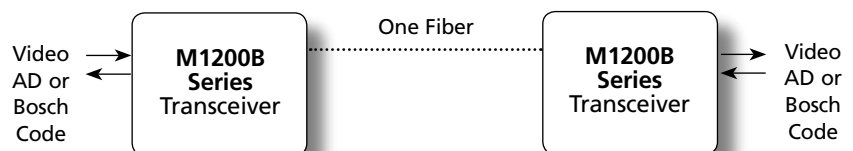
Module - 4½" x 4¼" x 1⅞"
Rack Card - 6½" x 1" x 5"

ORDERING INFORMATION:

MTM = Module Transmitter - Video Source
MRM = Module Receiver - Control Site
RRM = Rack Card Receiver - Control Site
RTM = Rack Card Transmitter - Video Sou



The American Fibertek M1200B Series transmits high-quality, simultaneous video with return AD or Bosch Code on one multimode optical fiber. These systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.



**THE 3200B SERIES IS AVAILABLE
FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

M1400 SERIES MULTIMODE

afi

Single Fiber Bi-directional Transceivers Low Profile One-Way Video & Two-Way RS422



FEATURES:

- Video with Two Way RS422 Utilizing One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Optical AGC
- Full Color Transmission

SPECIFICATIONS:

Video:

I/O Level 1 Vpp
I/O Impedance 75 Ohms
Bandwidth 8 MHz
Differential Gain 5%
Differential Phase 5°
SNR 60 dB
Connector BNC

Data:

Data Rate Up to 19.2 Kbps
Data Connector 5 pin screw terminal

Optical:

Wavelength 850/1300 nm
Loss Budget (62.5/125µ) 12 dB
Connector ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption 3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 3 Watts

Size:

Module - 4½" x 4¼" x 1⅞"
Rack Card - 6½" x 1" x 5"

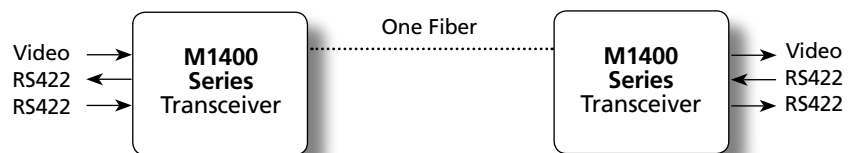
ORDERING INFORMATION:

MTM = Module Transmitter - Video Source
MRM = Module Receiver - Control Site
RRM = Rack Card Receiver - Control Site
RTM = Rack Card Transmitter - Video Source

Example: MTM-1400 to RRM-1400



The American Fibertek M1400 Series transmits high-quality, simultaneous video and bi-directional RS422 on one multimode optical fiber. These systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.



**THE 3400 SERIES IS AVAILABLE
FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

22 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com



Single Fiber Bi-directional Transceivers - One-Way Video and Reverse Channel RS422 for Pelco Spectra IV

**M1410
M1420
SERIES
MULTIMODE**



FEATURES:

- Plugs Directly into Spectra III Back-Box
- Single Fiber Video and PTZ Control
- Derives Power from Dome
- Module or Rack Card Receiver
- Compatible with Protocol P or D
- Completely Transparent Installation
- Optical AGC

SPECIFICATIONS:

Video:

I/O Level 1 Vpp
I/O Impedance 75 Ohms
Bandwidth 6 MHz
Differential Gain 5%
Differential Phase 3°
SNR 60 dB

Data:

Data Rate DC to 19.2 Kbps
Data Interface RS422

Optical:

Wavelength 850/1300 nm
Loss Budget (62.5/125μ) 12 dB
Connector ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

MTM-1410 - 12 VDC (From Spectra IV Dome)
Power Consumption 2 Watts
MRM-1410 - 12 VDC (AFI Part #: PS-12)
Power Consumption 3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 4 Watts

Size:

Transmitter - 3" x 2.1" x 3/4"
Module Receiver - 4 1/2" x 4 1/4" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

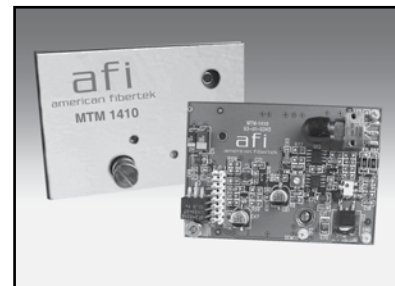
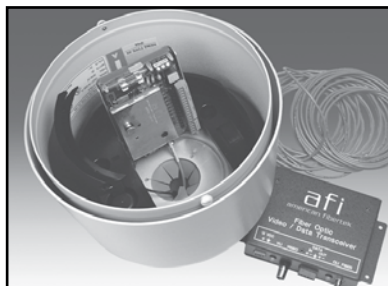
ORDERING INFORMATION:

MTM = Module Transmitter - Field Unit
MRM = Module Receiver - Control Site
RRM = Rack Card Receiver - Control Site
RRM1420 = Dual Rack Card Receiver

Example:

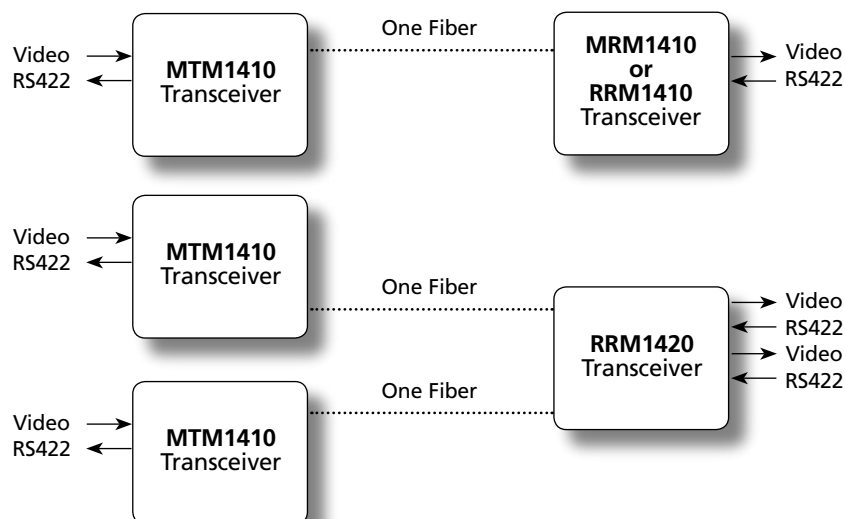
Module video TX to rack card RX:
MTM-1410 to RRM-1410

Module video TX to Module RX:
MTM-1410 to MRM-1410



The American Fibertek M1410 Series is a low cost, low profile video and reverse data transceiver system. The video transmitter is specifically designed to plug into the back box of the Pelco Spectra IV camera dome. The system utilizes one multimode optical fiber to transmit video and return RS422 Protocol P or D for camera PTZ control. Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter.

Compatible video receivers may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1. Using the 1420 Series Receiver, card cage density can be doubled. Example: SR-20D/2 would accommodate 28 receivers using the RRM-1420 Rack Card.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

M1485 SERIES MULTIMODE

afi

Single Or Dual Fiber Video Transmission System With Bi-Directional RS485, RS422, or Manchester / Bosch Data



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Data, Power and Optical Presence
- Switch Selectable 2 Wire or 4 Wire
- Switch Selectable Termination and Bias
- Single or Dual Fiber Alternative

SPECIFICATIONS:

Video:

1/0 Level 1 Vp-p
I/O Impedance 75 Ohms
Bandwidth 6 MHz
Differential Gain 5%
Differential Phase 3°
SNR 60 dB
Connector BNC

Data:

Data Rate:
RS485/ RS422 up to 100 Kbps
Manchester/Bosch up to 100 Kbps
Data Connector 5 Pin Screw Terminal

Optical:

Wavelength 850/1300 nm
Maximum Transmission Distance: 5 Km
Loss Budget (62.5/125μ) 12 dB
Connector ST

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption 4 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 4 Watts

Size:

Module - 4 1/2" x 4 1/4" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

SINGLE FIBER ORDERING INFORMATION:

MTM-1485 = Module Transmitter
RTM-1485 = Rack Card Transmitter
MRM-1485 = Module Receiver
RRM-1485 = Rack Card Receiver

Example:

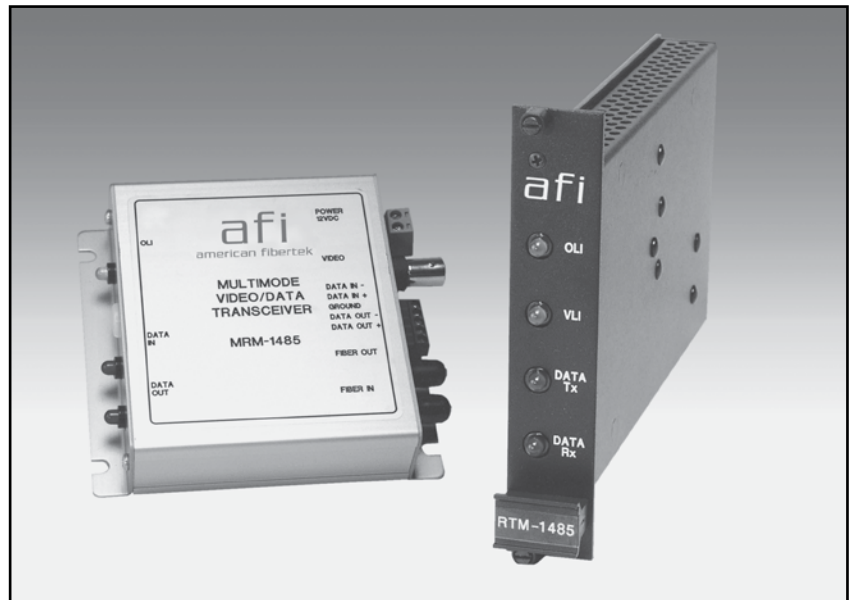
MTM-1485 to RRM-1485

DUAL FIBER ORDERING INFORMATION:

MTM-1485-2F8 = Module Transmitter
RTM-1485-2F8 = Rack Card Transmitter
MRM-1485-2F8 = Module Receiver
RRM-1485-2F8 = Rack Card Receiver

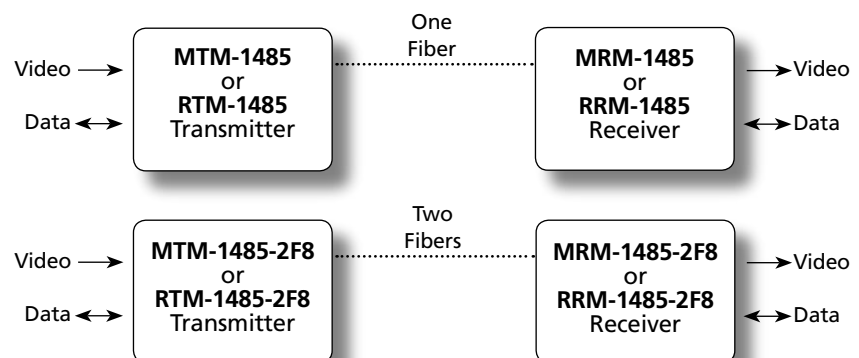
Example:

MTM-1485-2F8 to RRM-1485-2F8



The American Fibertek M1485 Series transmits one channel of high-quality video along with bi-directional RS485, RS422, or Manchester / Bosch data on one multimode optical fiber. The American Fibertek M1485-2F8 Series transmits one channel of high-quality video along with bi-directional RS485, RS422, or Manchester / Bosch data on two multimode optical fibers. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



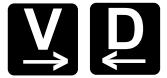
**THE 3485 AND 915 SERIES ARE AVAILABLE
FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

24 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

Single Fiber Bi-directional Transceivers - Low Profile One-Way Video with Reverse "Up the Coax" Camera and PTZ Control



FEATURES:

- Video with Reverse "Up the Coax" Camera and PTZ Control over One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- Full Color Transmission
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level	1 Vpp
I/O Impedance	75 Ohms
Bandwidth	8 MHz
Differential Gain	5%
Differential Phase	3°
SNR	60 dB
Connector	BNC

Control System Compatibility:

Vicon Vicoax
Burle
Pelco Coaxitron 15, 16 and 32 bit
Videolarm
All other Vertical Interval Signal Products

Optical:

Wavelength	850/1300 nm
Loss Budget (62.5/125μ)	12 dB
Connector	ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)	
Power Consumption	4 Watts
Rack Card (See AFI Part #: SR-20D/2)	
Power Consumption	4 Watts

Size:

Module - 4½" x 4¼" x 1⅛"
Rack Card - 6½" x 1" x 5"

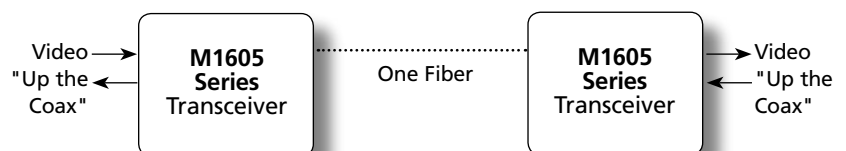
ORDERING INFORMATION:

MTM = Module Transmitter - Video Source
MRM = Module Receiver - Control Site
RRM = Rack Card Receiver - Control Site
RTM = Rack Card Transmitter - Video Source

Example: MTM-1605 to RRM-1605



The American Fibertek M1605S Series transmits high-quality, simultaneous video with reverse vertical interval signal on one multimode optical fiber. Designed to be used with "Up the Coax" products, these systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.



**THE 3600 SERIES IS AVAILABLE
FOR SINGLEMODE APPLICATIONS**

[SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY](#)

M1615 SERIES MULTIMODE

afi

Single Fiber Bi-directional Transceivers - One-Way Video with reverse Coaxitron Control for Pelco Spectra IV



FEATURES:

- Plugs Directly into Spectra III Back-Box
- Single Fiber Video and PTZ Control
- Powered by the Dome
- Modules or Rack Card Receiver
- Compatible with 15, 16 and 32 Bit Extended Coaxitron Control
- Completely Transparent Installation
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance75 Ohms
Bandwidth8 MHz
Differential Gain5%
Differential Phase.....3°
SNR.....60 dB
Connector Internal

Data:

Pelco "Up the Coax" Control

Optical:

Wavelength850/1300 nm
Loss Budget (62.5/125μ fiber)..... 10 dB
ConnectorST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

MTM-1615 - 12 VDC (From Spectra IV Dome)
Power Consumption2 Watts
MRM-1605 - 12 VDC (AFI Part #: PS-12)
Power Consumption4 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption4 Watts

Size:

Transmitter - 3" x 2.1" x 3/4"
Module Receiver - 4 1/2" x 4 1/4" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

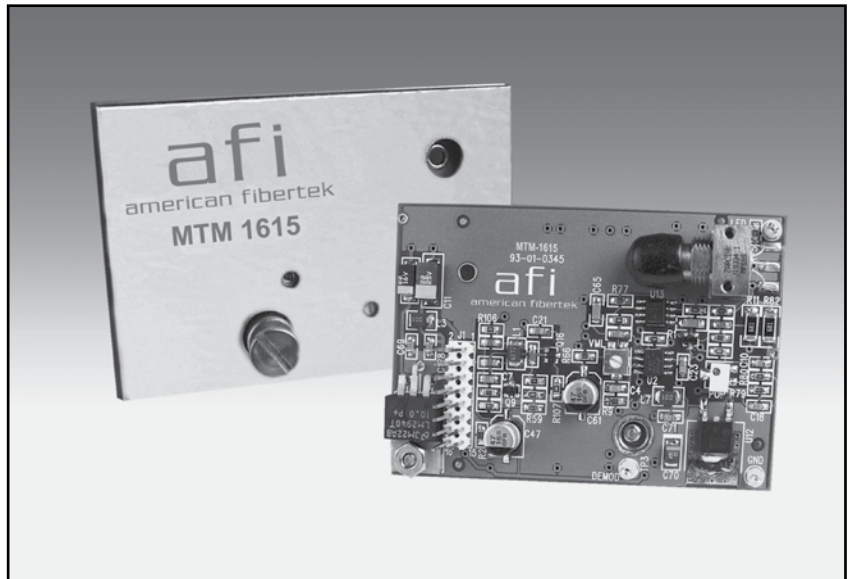
ORDERING INFORMATION:

MTM = Module Transmitter - Field Unit

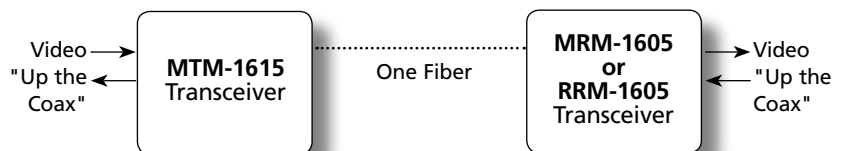
Example:

Module Video Tx to Rack Card Rx:
MTM-1615 to RRM-1605

Module Video Tx to Module Rx:
MTM-1615 to MRM-1605



The American Fibertek M1610 Series is a low cost, low profile video and Coaxitron transceiver system. The video transmitter is specifically designed to plug into the back box of the Pelco Spectra IV camera dome. The system utilizes one multimode optical fiber to transmit video and return Coaxitron camera PTZ control. Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter. Compatible video receivers may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1. The MTM-1615 is compatible with the MRM-1600 or the RRM-1600.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204



M1605P SERIES MULTIMODE

Single Fiber Bi-directional Transceivers - Low Profile One-Way Video with Reverse Panasonic "Up the Coax" Camera and PTZ Control



FEATURES:

- Video with Reverse Panasonic Camera and PTZ Control Over One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics Video, Power and Optical Presence
- Full Color Transmission
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level	1 Vpp
I/O Impedance	75 Ohms
Bandwidth	8 MHz
Differential Gain	5%
Differential Phase	3°
SNR	60 dB
Connector	BNC

System Data Supports:

Full function Panasonic Proteus control protocol.

Optical:

Wavelength	850/1300 nm
Loss Budget (62.5/125μ)	12 dB
Maximum Transmission Distance	1.6 Km
Connector	ST

Temperature (Operating):

-40°C to +74°C, non-condensing

Power Supply:

Power Supply:	
Module - 12 VDC (AFI Part #: PS-12)	
Power Consumption	4 Watts
Rack Card (See AFI Part #: SR-20D/2)	
Power Consumption	4 Watts

Size:

Module - 4½" x 4¼" x 1⅛"
Rack Card - 6½" x 1" x 5"

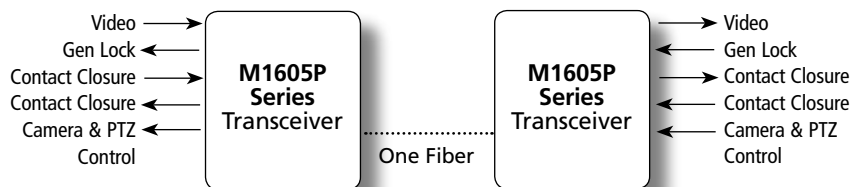
ORDERING INFORMATION:

MTM =	Module Transmitter - Video Source
MRM =	Module Receiver - Control Site
RRM =	Rack Card Receiver - Control Site
RTM =	Rack Card Transmitter - Video Source

Example: MTM-1605P to RRM-1605P



The American Fibertek M1605P Series transmits high-quality, simultaneous video with reverse Panasonic Control Protocol on one multimode optical fiber. Designed to be used with Panasonic products, these systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1. Panasonic products provide full function Bi-directional video, camera and PTZ control along with full contact closure and video genlock.



**THE 3600P SERIES IS AVAILABLE
FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

8485C 8410C SERIES MULTIMODE

afi

Single Fiber Four Channel FM Video System With RS485, RS422, RS232, Manchester/Bosch, or Sensornet Data



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Data, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Switch Selectable Termination and Fail Safe Bias
- Wall or Rack Mount
- PFM Video Transmission

SPECIFICATIONS:

Video:

1/0 Level.....	1 Vp-p
I/O Impedance.....	75 Ohms
Bandwidth.....	10 MHz
Differential Gain.....	5%
Differential Phase.....	3°
SNR.....	55 dB
Connector.....	BNC

Data:

Data Rate:

RS485/ RS422/ RS232.....	up to 50 Kbps
Manchester/Bosch.....	up to 50 Kbps
Sensornet.....	230.4 Kbps
Data Connector.....	8 Pin Screw Terminal

Optical:

Wavelength.....	850/1300 nm
Maximum Transmission Distance:.....	5 Km
Loss Budget (62.5/125μ):	
MTX to MRX.....	12 dB @ 1300nm
MRX to MTX.....	20 dB @ 850nm
Connector.....	ST

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Universal Power Input: 100 to 240 VAC
@ 47 to 63 Hz, 40 Watts Maximum

Size:

12" Deep x 19" Wide x 1¾" (1RU) High

ORDERING INFORMATION:

Video with RS485, RS422, RS232, or
Manchester/Bosch Data:

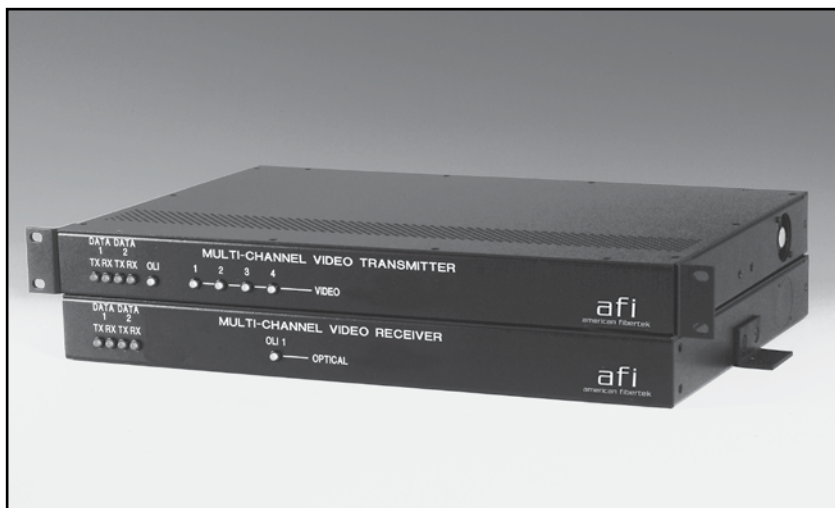
MTX-8485C = Module/Rack Video Source
MRX-8485C = Module/Rack Video Monitor

Video with Sensornet Data:

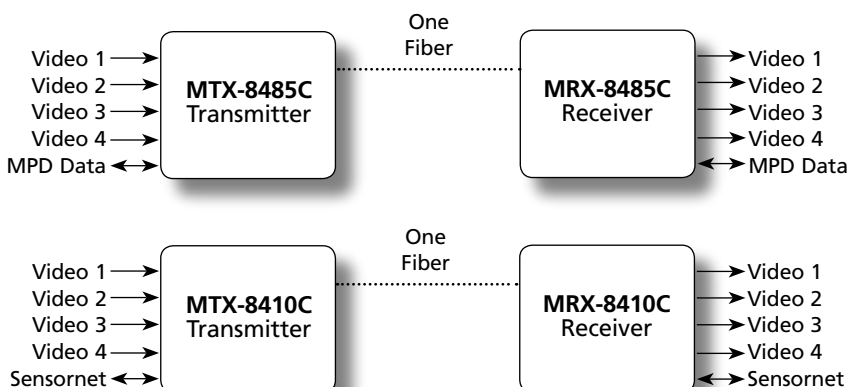
MTX-8410C = Module/Rack Video Source
MRX-8410C = Module/Rack Video Monitor

Example:

MTX-8485C to MRX-8485C



The American Fibertek 8485C Series transmits four channels of high-quality, FM video with bi-directional PTZ or keyboard data on one multimode optical fiber. The 8485C Series is switch selectable to one channel of RS485 (2 or 4 wire) or Manchester/Bosch data, or a dual channel consisting of RS422 and RS232 data. The 8485C Series also incorporates switch selectable data biasing and data termination features. The American Fibertek 8410C Series transmits four channels of high-quality, FM video with bi-directional Sensornet data on one multimode optical fiber. Both series are designed to be completely transparent to all camera and monitor manufacturers. The system requires no field adjustments at installation or additional maintenance thereafter. Equipment may be mounted as stand alone modules or mounted directly into a standard EIA 19" rack depending on the position of the mounting brackets.



**THE 8485C-SL AND 8410C-SL SERIES ARE
AVAILABLE FOR SINGLEMODE APPLICATIONS**

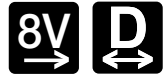
SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

28 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

Single Fiber Eight Channel FM Video System With RS485, RS422, RS232, Manchester/Bosch, or Sensornet Data

**8885C
8810C
SERIES
MULTIMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Data, Power and Optical Presence
- Full Color Transmission
- Real Time Video Transmission
- Switch Selectable Termination and Fail Safe Bias
- Wall or Rack Mount
- PFM Video Transmission

SPECIFICATIONS:

Video:

I/O Level 1 Vp-p
I/O Impedance 75 Ohms
Bandwidth 10 MHz
Differential Gain 5%
Differential Phase 3°
SNR 55 dB
Connector BNC

Data:

Data Rate:
RS485/RS422 / RS232 up to 50 Kbps
Manchester/Bosch up to 50 Kbps
Sensornet 230.4 Kbps
Data Connector 8 Pin Screw Terminal

Optical:

Wavelength 850/1300/1550 nm
Maximum Transmission Distance: 5 Km
Loss Budget (62.5/125µ):
MTX to MRX 12 dB @ 1300/1550nm
MRX to MTX 20 dB @ 850nm
Connector ST

Temperature (Operating)

-40°C to +74°C, non-condensing

Power Supply:

Universal Power Input: 100 to 240 VAC
@ 47 to 63 Hz, 40 Watts Maximum

Size:

12" Deep x 19" Wide x 1¾" (1RU) High

ORDERING INFORMATION:

Video with RS485, RS422, RS232 or Manchester/Bosch Data:
MTX-8885C = Module/Rack Video Source
MRX-8885C = Module/Rack Video Monitor

Video with Sensornet Data:

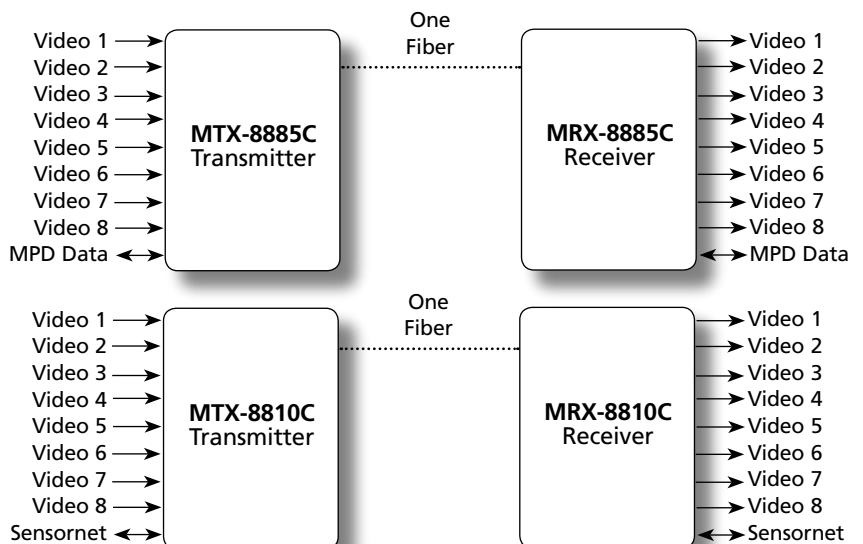
MTX-8810C = Module/Rack Video Source
MRX-8810C = Module/Rack Video Monitor

Example:

MTX-8885C to MRX-8885C



The American Fibertek 8885C Series transmits eight channels of high-quality, FM video with bi-directional PTZ or keyboard data on one multimode optical fiber. The 8885C Series is switch selectable to one channel of RS485 (2 or 4 wire) or Manchester/Bosch data, or a dual channel consisting of RS422 and RS232 data. The 8885C Series also incorporates switch selectable data biasing and data termination features. The American Fibertek 8810C Series transmits eight channels of high-quality, FM video with bi-directional Sensornet data on one multimode optical fiber. Both series are designed to be completely transparent to all camera and monitor manufacturers. The system requires no field adjustments at installation or additional maintenance thereafter. Equipment may be mounted as stand alone modules or mounted directly into a standard EIA 19" rack depending on the position of the mounting brackets.



**THE 8885C-SL AND 8810C-SL SERIES ARE
AVAILABLE FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

Selecta-Link™



*Single & Dual Channel Audio Units
For Intercom, Music & Paging
Applications*

Single Or Dual Fiber Telephone Line Extender System

**86
SERIES
MULTIMODE**



FEATURES:

- Standard Telephone Interface
- One Multimode Fiber
- Diagnostics: Power and Optical Presence
- Voice and FAX
- Economical
- Includes: Contact from Handset to Line
- Compatible with Momentary Disconnect

SPECIFICATIONS:

Audio:

I/O Level 0 dBm
I/O Impedance 600 Ω
Audio Bandwidth 4 KHz
SNR 60 dB
Connector RJ11

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Connector 5 Pin Screw Terminal

Optical:

Wavelength 850/1300nm
Loss Budget (62.5/125 μ) 12dB
Connector ST

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

MT-86 - 24 VDC (AFI Part #: PS-24DC)
Power Consumption 19 Watts
MR-86 - 12 VAC (AFI Part #: PS-12AC)
Power Consumption 6 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 4 Watts

Size:

Module - 6" x 3 $\frac{3}{4}$ " x 1 $\frac{5}{16}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

ORDERING INFORMATION:

MR = Module Phone Line Interface
RR = Rackcard Phone Line Interface
MT = Module Handset Device Interface
RT = Rackcard Handset Device Interface

Example: MT-86 to RR-86

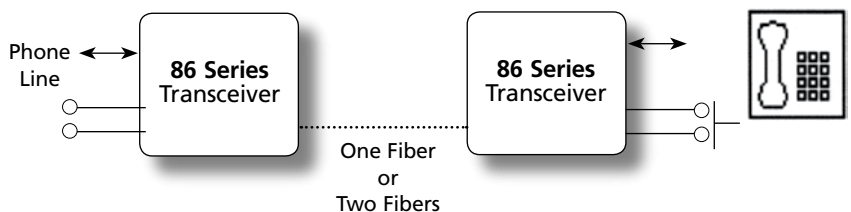


The American Fibertek 86 Series transmits and receives standard telephone signals on one multimode optical fiber using AM/FSK transmission. This system is designed to be completely transparent to all telephony signals including ring, off-hook, hook-switch flash and forward disconnect. Products require no field adjustments at installation or additional maintenance thereafter. Diagnostic Indicators provide a quick visual indication of system status. The 86 Series are ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2, or SR-20R/1.

The MT and RT supports up to 1000 feet of 24 AWG wire from the fiber optic unit to the telephone handset.

Other 86 series product configurations include 2 fiber units at 850 or 1300nm and an MX or RX series "talk down" (order wire) phone system. Contact the factory for details.

These units have been optimized for equipment with Data rates up to 14.4Kbs. Please consult the factory for other requirements.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

89A-L SERIES MULTIMODE



afi

Single Fiber Bi-directional Transceivers Audio and Contact Closure System Interface For AiPhone Intercom LEF Systems

FEATURES:

- Bi-directional Audio and Contact Closure Transceivers
- Diagnostics: Power and Optical Presence
- Voice Operated (VOX) Transmission
- FM Modulated Audio

SPECIFICATIONS:

Audio:

Bandwidth 300 Hz to 10 KHz
THD @ 1 KHz 2%
SNR 50 dB
Connector 5 Pin Screw Terminal

Contact Closure:

Input..... Switch Closure to Ground
Output Dry Contact
Response Time..... 2 ms
Connector 5 Pin Screw Terminal

Optical:

Wavelength 850/1300 nm
Loss Budget (62.5/125μ) 12 dB
Connector ST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 24 VAC Center Tap (AFI Part#: PS-24-CT-T)
Power Consumption 5 Watts
Rack Card - (See AFI Part #: SR-20D/2)
Power Consumption 3 Watts

Size:

Module - 5¾" x 6¾" x 1⅜"
Rack Card - 6½" x 1" x 5"

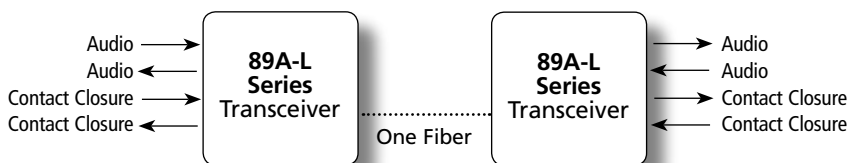
ORDERING INFORMATION:

MT = Module Transmitter - Station
MR = Module Receiver - Master
RT = Rack Card Transmitter - Station
RR = Rack Card Receiver - Master

Example: MT-89A-L to RR-89A-L



The American Fibertek 89A-L Series transmits one channel of high-quality low distortion bi-directional audio/contact closure on one multimode optical fiber. Designed to be completely transparent, the system's field microphone and audio level can be adjusted to balance and optimize signal levels. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

32 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com



Single Fiber Bi-directional Transceivers Dual Channel Audio

**0880
SERIES
MULTIMODE**



FEATURES:

- Two Channels of Bi-directional Audio
- Diagnostics: Power and Optical Presence
- 24 VAC Standard or 12 VDC Option
- No User or Internal Adjustments
- 600 Ohms Balanced or Unbalanced Audio.
- FM Modulated Audio

SPECIFICATIONS:

Audio:

I/O Level @ 600 Ohms0 dBm
Bandwidth 20 Hz to 10 KHz
THD @ 1 KHz 1%
SNR 50 dB
Connector 5 Pin Screw Terminal

Optical:

Wavelength850/1300 nm
Loss Budget (62.5/125µ) 12 dB
ConnectorST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 24 VAC (AFI Part #: PS-24)
Power Consumption3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption3 Watts

Size:

Module - 5¾" x 6¾" x 1⅞"
Rack Card - 6½" x 1" x 5"

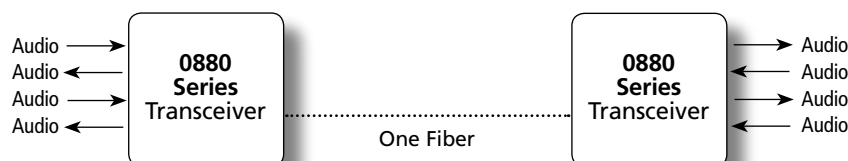
ORDERING INFORMATION:

MT = Module Transmitter - Audio Input
MR = Module Receiver - Audio Output
RT = Rack Card Transmitter - Audio Input
RR = Rack Card Receiver - Audio Output

Example: MT-0880 to RR-0880



The American Fibertek 0880 Series transmits two channels of high-quality bi-directional audio on one multimode optical fiber. Designed to be completely transparent, this product can be used in intercom Tie-in applications between exchanges. This system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.



**THE 0880SL SERIES IS AVAILABLE
FOR SINGLEMODE APPLICATIONS**

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

Selecta-Link™



*Single & Multichannel Units
For Data & Ethernet Applications*

Dual Fiber RS485 Transceiver Data System

**485
SERIES
MULTIMODE
SINGLEMODE**



FEATURES:

- RS-485 Transceiver
- Switch Selectable 2W or 4W, Terminations, and Line Bias
- Activity Indicators for Data TX and Data RX
- LED Indicator for Power
- Singlemode or Multimode Optics
- 2-Wire or 4-Wire Systems

SPECIFICATIONS:

Data:

Data Rate up to 38.4 Kbps
Data Connector 5 pin screw terminal

Optical:

Wavelength 850 nm
Loss Budget (62.5/125μ) 17 dB
Optical Connector ST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption 3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 3 Watts

Size:

Module - 4¼" X 4¼" X 1⅞"
Rack Card - 6½" x 1" x 5"

ORDERING INFORMATION:

MX-485 = Module Transceiver
RX-485 = Rack Card Transceiver

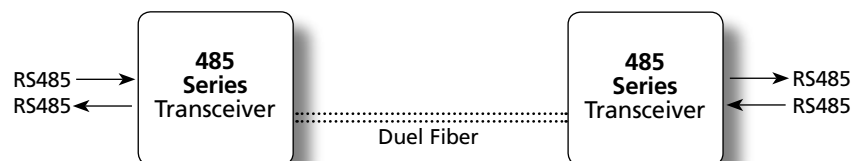
Example: MX-485 to RX-485



The American Fibertek 485 Series transmits and receives high-quality, 2-Wire or 4-Wire RS485 data on dual multimode optical fibers. Designed for continuous long-range, interference free data transmission, these systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.

PRODUCT ENHANCEMENTS:

- 485-13 Series RS-485 with a loss budget of 17dB @ 1300 nm multimode wavelength.
485-S Series RS-485 with a loss budget of 17dB @ 1300 nm singlemode wavelength.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

485T SERIES MULTIMODE SINGLEMODE

afi

Dual Fiber RS485 Data Repeater System



FEATURES:

- RS-485 Repeater
- Diagnostic: Video, Optical Presence, Power, and Bi-Directional Transmit/Receive
- LED Indicator
- Singlemode or Multimode Optics
- Drop and Insert Capability
- 2-Wire or 4-Wire Factory Set
- Up to 8 Repeats

SPECIFICATIONS:

Data:

Data Rate..... up to 38.4 Kbps
Module Data Connector..... 6 pin screw terminal
Rack Card Data Connector .. 4 pin screw terminal

Optical:

Wavelength 850 nm
Loss Budget (62.5/125μ)..... 15 dB
Optical ConnectorST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption5 Watts

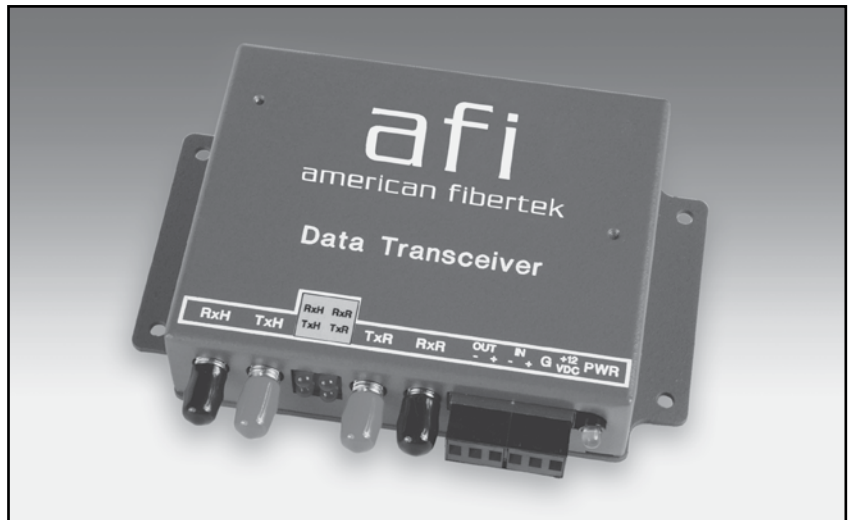
Size:

Module -3¼" X 5⅞" X 1⅝"

ORDERING INFORMATION:

MX-485-T = Module Repeater

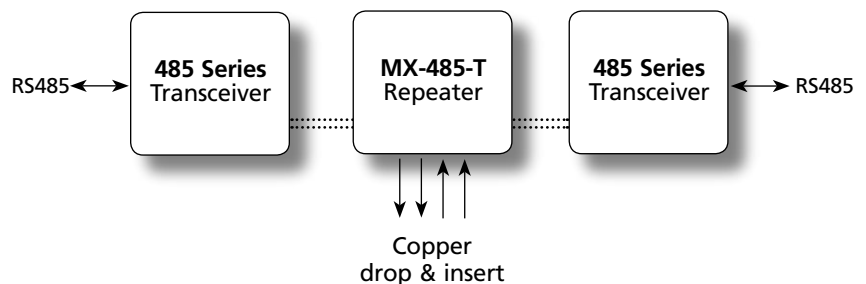
Example: MX-485-T to MX-485-T



The American Fibertek 485T Series transmits, receives, and repeats high-quality, RS485 data on dual multimode optical fibers. Designed for continuous long-range, interference free data transmissions, these systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules.

PRODUCT ENHANCEMENTS:

- 485-T-13 Series RS-485 with a loss budget of 17dB @ 1300 nm multimode wavelength.
485-T-S Series RS-485 with a loss budget of 17dB @ 1300 nm singlemode wavelength.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

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36 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

Single Channel Multi-Protocol Transmission System

Supports RS485, RS422, RS232, and Manchester/Bosch

**480
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Switch Selectable Multi-Protocol Data Channel
- Diagnostic Indicators: DC Power, Data Activity, and Optical Presence
- Switch Selectable Terminations
- DC to 115 Kb/s
- One Fiber or Two Fiber Configurations
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch

Format.....Asynchronous
Data Rate.....DC to 115Kbit/s
Connector.....Terminal Block

Optical:

Wavelength:

Single Fiber 1310/1550 nm

Dual Fiber 1310 nm

Loss Budget:

480 Series (62.5/125μ) 18 dB

480SL Series (9/125μ)..... 21 dB

Connector.....SC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)

Power Consumption 5 Watts

Size:

Module - 4¼" x 4¼" x 1⅞"

Rack Card - 6½" x 1" x 5"

ORDERING INFORMATION:

Multimode Dual Fiber Information:

MX-480 = Module Transceiver

RX-480 = Rack Card Transceiver

Multimode Single Fiber Information:

Ordering Note:

*One end of link must have 1310 nm TX,
the other end must have 1550 nm TX*

MTX-480 = Module Xcvr, 1310 nm TX

RTX-480 = Rack Card Xcvr, 1310 nm TX

MRX-480 = Module Xcvr, 1550 nm TX

RRX-480 = Rack Card Xcvr, 1550 nm TX

Singlemode Single Fiber Information

Ordering Note:

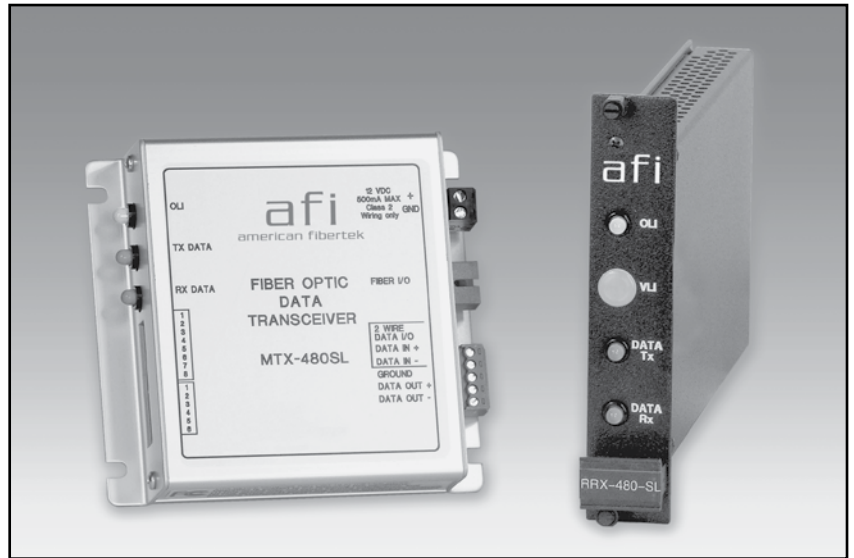
*One end of link must have 1310 nm TX,
the other end must have 1550 nm RX*

MTX-480SL = Module Xcvr, 1310 nm TX

RTX-480SL = Rack Card Xcvr, 1310 nm TX

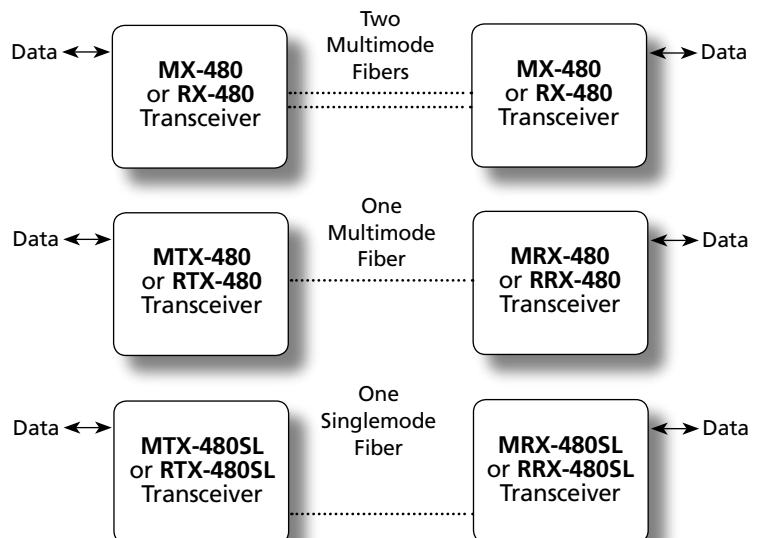
MRX-480SL = Module Xcvr, 1550 nm TX

RRX-480SL = Rack Card Xcvr, 1550 nm TX



The American Fibertek 480 Series transmits one channel of multi-protocol bi-directional data on one or two multimode optical fibers. The American Fibertek 480SL Series transmits one channel of multi-protocol bi-directional data on one singlemode optical fiber. The system is comprised of two transceivers forming a point-to-point communications link. Available switch selectable data formats include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. The system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

482 SERIES MULTIMODE SINGLEMODE

Dual Channel Multi-Protocol Transmission System Supports RS485, RS422, RS232, and Manchester/Bosch



FEATURES:

- Two Switch Selectable Multi-Protocol Data Channels
- Diagnostic Indicators: DC Power, Data Activity, and Optical Presence
- Switch Selectable Terminations
- DC to 115 Kb/s
- One Fiber or Two Fiber Configurations
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch

Format.....Asynchronous
Data Rate.....DC to 115Kbit/s
Connector.....Terminal Block

Optical:

Wavelength:

Single Fiber1310/1550 nm

Dual Fiber1310 nm

Loss Budget:

482 Series (62.5/125μ).....18 dB

482SL Series (9/125μ).....21 dB

Connector.....SC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)

Power Consumption2 Watts

Rack Card (See AFI Part #: SR-20D/2)

Power Consumption2 Watts

Size:

Module - 8 1/8" x 4 1/8" x 1 1/8"

Rack Card - 6 1/2" x 1" x 5"

ORDERING INFORMATION:

Multimode Dual Fiber Information:

MX-482 = Module Transceiver

RX-482 = Rack Card Transceiver

Multimode Single Fiber Information:

Ordering Note:

*One end of link must have 1310 nm TX,
the other end must have 1550 nm TX*

MTX-482 = Module Xcvr, 1310 nm TX

RTX-482 = Rack Card Xcvr, 1310 nm TX

MRX-482 = Module Xcvr, 1550 nm TX

RRX-482 = Rack Card Xcvr, 1550 nm TX

Singlemode Single Fiber Information

Ordering Note:

*One end of link must have 1310 nm TX,
the other end must have 1550 nm RX*

MTX-482SL = Module Xcvr, 1310 nm TX

RTX-482SL = Rack Card Xcvr, 1310 nm TX

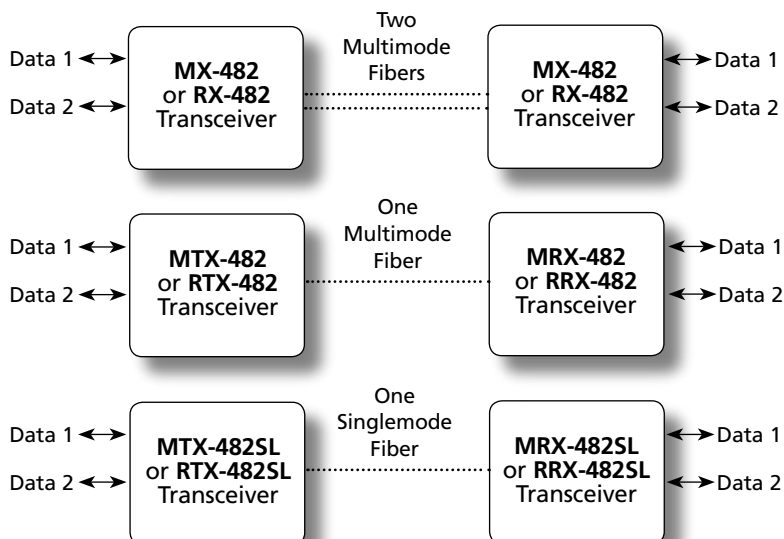
MRX-482SL = Module Xcvr, 1550 nm TX

RRX-482SL = Rack Card Xcvr, 1550 nm TX



The American Fibertek 482 Series transmits two channels of multi-protocol bi-directional data on one or two multimode optical fibers. The American Fibertek 482SL Series transmits two channels of multi-protocol bi-directional data on one singlemode optical fiber. The system is comprised of two transceivers forming a point-to-point communications link. Available switch selectable data formats include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. The system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

Single or Dual Fiber Ethernet Data System

10Base-T, 100Base-TX, 1000Base-SX, or 1000Base-LX

45-FX/ML
47-SX/LX
SERIES
MULTIMODE



FEATURES:

- Complete Fiber Optic to Twisted Pair Media Interface
- Diagnostics: UTP Activity, UTP Link, Fiber Activity, and Fiber Link
- 10/100 Mb/s, Full/Half Duplex (45 Series)
- 1000 Mb/s (47 Series)
- MDI / MDIX Switch (45 Series)
- Auto MDI / MDIX Detection (47 Series)
- One and Two Fiber Versions Available

SPECIFICATIONS:

Ethernet Data:

Data Rate:
 45 Series 10/100 Mb/s
 47 Series 1000 Mb/s
 Data Connector RJ45

Optical:

Wavelength:
 45-FX Series 1310 nm
 45-ML Series 1310/1550 nm
 47-SX Series 850 nm
 47-LX Series (Dual Fiber) 1310 nm
 47-LX Series (One Fiber) 1310/1550 nm
 Maximum Distance (Per IEEE802.3):
 45 Series (Half Duplex) 412 m
 45 Series (Full Duplex) 2 Km
 47-SX Series (50/125u) 550 m
 47-SX Series (62.5/125u) 220 m
 47-LX Series 550 m
 Loss Budget (62.5/125u):
 45 Series 11 dB
 47-SX Series 7 dB
 47-LX Series 10 dB
 Connector SC
 ST connector optional on 45-FX Series

Temperature (Operating)

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
 Power Consumption 5 Watts
 Rack Card (See AFI Part #: SR-20D/2)
 Power Consumption 6 Watts

Size:

Module - 4 1/4" x 4 1/4" x 1 1/8"
 Rack Card - 6 1/2" x 1" x 5"

Example: MX-45-FX-ST to MX-45-FX-ST

Example: MX-45-FX-ST to RX-45-FX-ST

Example: MT-45-ML-SC to RR-45-ML-SC

Example: MX-47-SX to MX-47-SX

Example: MX-47-LX to RX-47-LX

Example: MTX-47-LX to RRX-47-LX



The American Fibertek 45-FX Series and 45-ML Series transmit 10Base-T or 100Base-TX Ethernet data over multimode optical fiber. The 47-SX Series transmits 1000Base-SX Ethernet data and the 47-LX Series transmits 1000Base-LX data. The system is comprised of two transceivers forming a point-to-point link and requires no field adjustments at installation or additional maintenance thereafter. The system is designed to be completely transparent with auto negotiate features. The 45 Series provides a MDI/MDIX crossover switch while the 47 Series incorporates auto negotiate MDI/MDIX operation. Diagnostic indicators provide a quick visual indication of system status.

The 45 and 47 Series may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.

ORDERING INFORMATION (Dual Fiber Units):

MX-45-FX-ST = 10/100 Mb/s Module Transceiver with ST Connectors
 RX-45-FX-ST = 10/100 Mb/s Rack Card Transceiver with ST Connectors
 MX-45-FX-SC = 10/100 Mb/s Module Transceiver with SC Connectors
 RX-45-FX-SC = 10/100 Mb/s Rack Card Transceiver with SC Connectors

MX-47-SX = 1000 Mb/s Module Transceiver with SC Connectors
 RX-47-SX = 1000 Mb/s Rack Card Transceiver with SC Connectors

MX-47-LX = 1000 Mb/s Module Transceiver with SC Connectors
 RX-47-LX = 1000 Mb/s Rack Card Transceiver with SC Connectors

ORDERING INFORMATION (Single Fiber Units, all with SC Connectors):

Note: One end of link must have 1310 nm TX, the other end 1550 nm TX

MT-45-ML-SC = 10/100 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX
 RT-45-ML-SC = 10/100 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX
 MR-45-ML-SC = 10/100 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX
 RR-45-ML-SC = 10/100 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

MTX-47-LX = 1000 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX
 RTX-47-LX = 1000 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX
 MRX-47-LX = 1000 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX
 RRX-47-LX = 1000 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

45-SL 47-LX/LXE SERIES SINGLEMODE

afi

Single or Dual Fiber Ethernet Data System 10Base-T, 100Base-TX, or 1000Base-LX



FEATURES:

- Complete Fiber Optic to Twisted Pair Media Interface
- Diagnostics: UTP Activity, UTP Link, Fiber Activity, and Fiber Link
- 10/100 Mb/s, Full/Half Duplex (45 Series)
- 1000 Mb/s (47 Series)
- MDI / MDIX Switch (45 Series)
- Auto MDI / MDIX Detection (47 Series)
- One and Two Fiber Versions Available

SPECIFICATIONS:

Ethernet Data:

Data Rate:

45 Series	10/100 Mb/s
47 Series	1000 Mb/s
Data Connector	RJ45

Optical:

Wavelength:

Single fiber	1310 nm
Dual fiber	1310/1550 nm

Maximum Distance (Per IEEE802.3):

45 Series (Half Duplex)	412 m
45 Series (Full Duplex)	3 Km
47-LX Series (Single Fiber)	2 Km
47-LX Series (Dual Fiber)	5 Km
47-LXE Series	10 Km

Loss Budget (9/125μ):

45 Series	11 dB
47-LX Series (Single Fiber)	8 dB
47-LX Series (Dual Fiber)	10 dB
47-LXE Series	8 dB
Connector	SC

Temperature (Operating)

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)

Power Consumption5 Watts

Rack Card (See AFI Part #: SR-20D/2)

Power Consumption6 Watts

Size:

Module - 4 1/4" x 4 1/4" x 1 1/8"

Rack Card - 6 1/2" x 1" x 5"

Example: MT-45-SL-SC to RR-45-SL-SC

Example: MX-47-LX-SL to MX-47-LX-SL

Example: MX-47-LX-SL to RX-47-LX-SL

Example: MTX-47-LX-SL to RRX-47-LX-SL

Example: MTX-47-LXE-SL to RRX-47-LXE-SL



The American Fibertek 45-SL Series transmits 10Base-T or 100Base-TX Ethernet data over singlemode optical fiber. The 47-LX and 47-LXE Series transmits 1000Base-LX Ethernet data. The system is comprised of two transceivers forming a point-to-point link and requires no field adjustments at installation or additional maintenance thereafter. The system is designed to be completely transparent with auto negotiate features. The 45 Series provides a MDI/MDIX crossover switch while the 47 Series incorporates auto negotiate MDI/MDIX operation. Diagnostic indicators provide a quick visual indication of system status.

The 45 and 47 Series may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.

ORDERING INFORMATION (Dual Fiber Units):

MX-47-LX-SL = 1000 Mb/s Module Transceiver

RX-47-LX-SL = 1000 Mb/s Rack Card Transceiver

ORDERING INFORMATION (Single Fiber Units):

Note: one end of link must have 1310 nm TX, the other end 1550 nm TX

MT-45-SL-SC = 10/100 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX

RT-45-SL-SC = 10/100 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX

MR-45-SL-SC = 10/100 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX

RR-45-SL-SC = 10/100 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

MTX-47-LX-SL = 1000 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX

RTX-47-LX-SL = 1000 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX

MRX-47-LX-SL = 1000 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX

RRX-47-LX-SL = 1000 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

MTX-47-LXE-SL = 1000 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX

RTX-47-LXE-SL = 1000 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX

MRX-47-LXE-SL = 1000 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX

RRX-47-LXE-SL = 1000 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

40 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

Single Fiber 8 Channel Status Control System

**80
SERIES
MULTIMODE
SINGLEMODE**

**CC
8→**

FEATURES:

- 8 Channel Status Control
- Diagnostic: Power, Optical Presence and Channel Indicators
- TTL and/or Dry Contact
- Multimode or Singlemode Option
- High Density DB26 Data Connector

SPECIFICATIONS:

Data:

Logic Levels.....TTL
Contact Closure Rating..... 0.5 A Max,
100 Volt DC or Peak AC Per Channel
Response Time.....2 ms
Connector.....26 dB

Optical:

Wavelength.....850 nm
Loss Budget (62.5/125μ).....17 dB
Connector.....ST

Temperature (Operating):

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12)
Power Consumption.....2 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption.....3 Watts

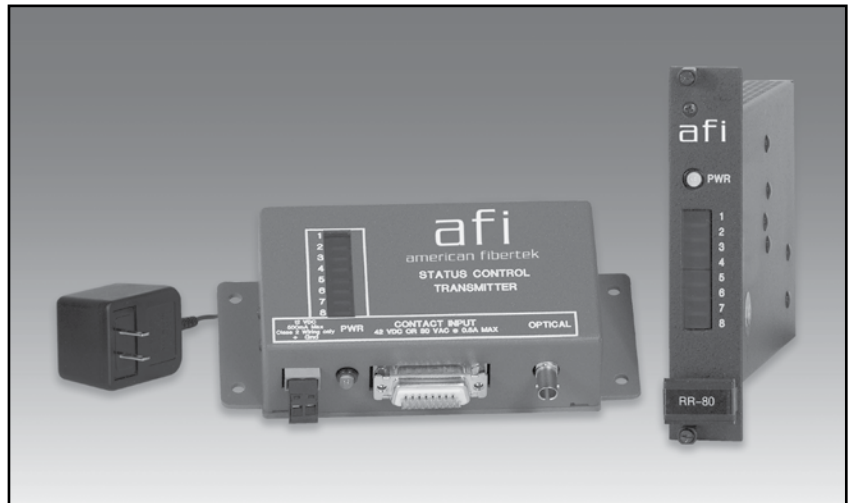
Size:

Module Transmitter - 2 $\frac{5}{8}$ " x 5 $\frac{3}{4}$ " x 1 $\frac{5}{16}$ "
Module receiver - 3 $\frac{3}{4}$ " x 5 $\frac{3}{4}$ " x 1 $\frac{5}{16}$ "
Rack Card - 6 $\frac{1}{2}$ " x 5" x 1"

ORDERING INFORMATION:

MT = Module Transmitter - Signal Source
MR = Module Receiver - Signal Receive
RT = Rack Card Transmitter - Signal Source
RR = Rack Card Receiver - Signal Receive

Example: MT-80 to RR-80

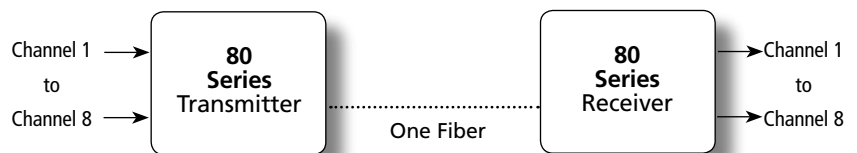


The American Fibertek 80 Series multiplexes up to eight channels of TTL and/or dry contact closure on a one multimode optical fiber. A set of eight LEDs on the transmitter and the receiver units indicates the channel(s) in use. These systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20D/2 or SR-20R/1.

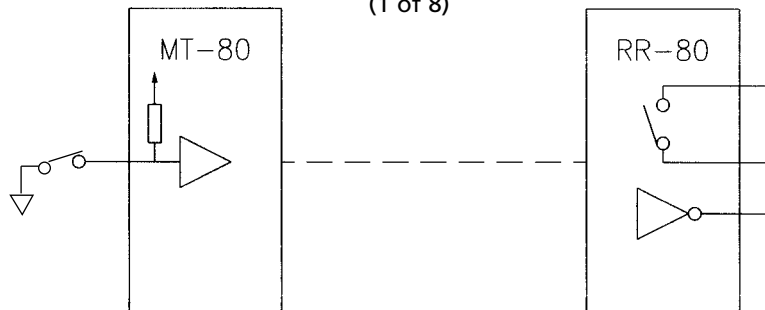
PRODUCT ENHANCEMENTS:

80-13 1300 nm multimode optics with a loss budget of 17 dB @1300nm wavelength

80-5 1300 nm singlemode optics with a loss budget of 17 dB @1300nm wavelength



CONTACT CLOSURE CIRCUIT
(1 of 8)



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

81 / 82 SERIES MULTIMODE

afi

Eight or Sixteen Channel Contact Closure System With Power Fail Safe Normally Open / Normally Closed Outputs



FEATURES:

- Form-C (Normally Open or Normally Closed) Dry Contact Closure
- Latching Relays reduce power requirement
- User-Selectable feature maintains Contact Status through Power-Cycle and Loss-of-Optical-Power.
- User Control to Reset all Contact Status
- Diagnostics: DC Power, Optical Presence, and Channel Indicators
- High Density DB26 Data Connector with Adaptor to screw terminal

SPECIFICATIONS:

Contact Closure:

Input..... Switch Closure to Ground
Output Dry Contact
Response Time..... 0.5 ms
Maximum Voltage..... 40 VDC or Peak AC
Maximum Current..... 0.5 amp
Connector DB 26 with Adaptor
..... To Screw Terminal Block

Optical:

Wavelength 1310 nm
Loss Budget (62.5/125µ) 12 dB
Connector ST

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption 3 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 3 Watts

Size (81 Series):

Module..... 8 1/8" x 4 1/8" x 1 1/8"
Rack Card..... 6 1/2" x 5" x 1"

Size (82 Series):

Module..... 8 1/8" x 4 1/8" x 1 1/2"
Rack Card..... 6 1 1/2" x 5" x 2"

Note: 82 Series Rack Card Requires Two Slots

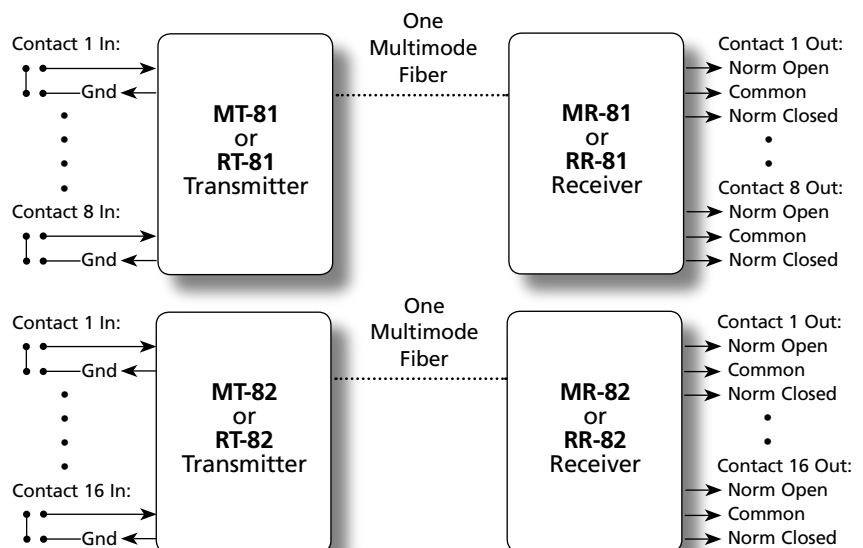
ORDERING INFORMATION:

MT-81 = Module Transmitter- 8 Channel
RT-81 = Rack Card Transmitter- 8 Channel
MR-81 = Module Receiver- 8 Channel
RR-81 = Rack Card Receiver- 8 Channel
MT-82 = Module Transmitter-16 Channel
RT-82 = Rack Card Transmitter-16 Channel
MR-82 = Module Receiver-16 Channel
RR-82 = Rack Card Receiver-16 Channel

THE 81SL SERIES AND 82SL SERIES ARE AVAILABLE FOR SINGLEMODE APPLICATIONS



The American Fibertek 81 Series multiplexes 8 channels of dry latching contact closure on one multimode fiber. The American Fibertek 82 Series multiplexes 16 channels of dry latching contact closure on one multimode fiber. A user-selectable feature allows the contact status to be maintained unchanged or reset through power-cycle and loss-of-optical-power. A reset button is available to clear all contact status to the default state. Individual channel LEDs on the transmitter and the receiver units indicate the channel status. These systems require no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 AFI Card Cages. The "Afinety" intelligent remote monitoring system is available on the Rack Card product, please consult factory.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

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910 SERIES MULTIMODE SINGLEMODE

afi

Single Channel Digital Video Transmission System



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
 I/O Impedance 75 Ohms
 Bandwidth 7 MHz
 Differential Gain 2%
 Differential Phase 0.7°
 SNR 65 dB
 Connector BNC

Optical (910 Series):

Wavelength 1310 nm
 Loss Budget (62.5/125 μ) 12 dB
 Maximum Transmission Distance 4 Km
 Connector ST

Optical (910SL Series):

Wavelength 1310 nm
 Loss Budget (9/125 μ) 21 dB
 Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
 Power Consumption 5 Watts
 Rack Card (See AFI Part #: SR-20D/2)
 Power Consumption 6 Watts

Size:

Module - 8 1/8" x 4 1/8" x 1 1/8"
 Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-910 = Module Transmitter
 RT-910 = Rack Card Transmitter
 MR-910 = Module Receiver
 RR-910 = Rack Card Receiver

SINGLEMODE ORDERING INFORMATION:

MT-910SL = Module Transmitter
 RT-910SL = Rack Card Transmitter
 MR-910SL = Module Receiver
 RR-910SL = Rack Card Receiver

Example: MT-910 to MR-910

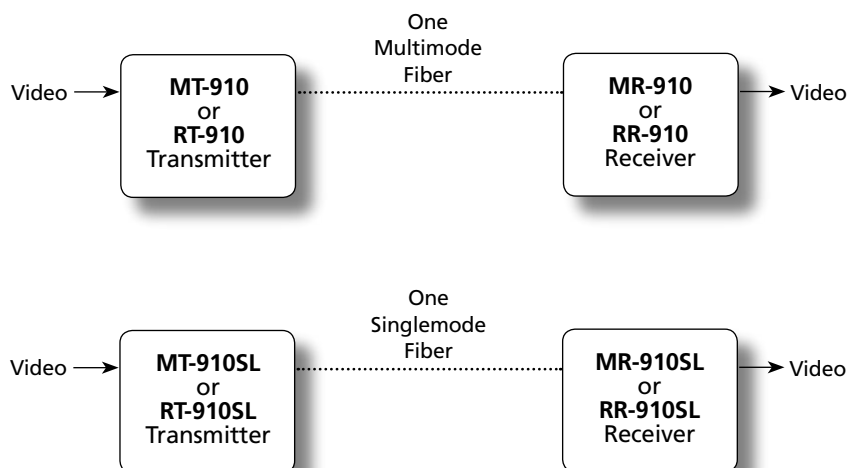
Example: RT-910 to RR-910

Example: MT-910SL to RR-910SL



The American Fibertek 910 Series transmits one channel of high-quality, 10 bit digitized video on one multimode optical fiber. The 910SL Series transmits one channel of high-quality, 10 bit digitized video on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



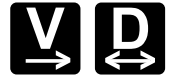
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Single Channel Digital Video Transmission System With Bi-Directional Sensornet Data

**911
SERIES**
MULTIMODE
SINGLEMODE



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Digital Frame Sync, and Optical Presence
- Switch Selectable Terminations
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Data:

Data Rate 230.4 Kbps
Data Connector 5 pin screw terminal

Optical (911 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 4 Km
Connector ST

Optical (911SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125 μ) 21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption 6 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 7 Watts

Size:

Module - 8 $\frac{3}{8}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-911 = Module Transmitter
RT-911 = Rack Card Transmitter
MR-911 = Module Receiver
RR-911 = Rack Card Receiver

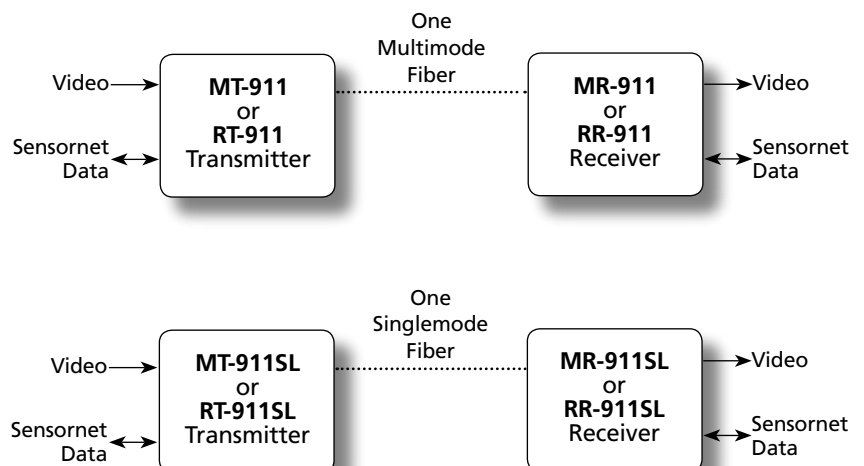
SINGLEMODE ORDERING INFORMATION:

MT-911SL = Module Transmitter
RT-911SL = Rack Card Transmitter
MR-911SL = Module Receiver
RR-911SL = Rack Card Receiver



The American Fibertek 911 Series transmits one channel of high-quality, 10 bit digitized video along with bi-directional Sensornet data on one multimode optical fiber. The 911SL Series transmits one channel of high-quality, 10 bit digitized video along with bi-directional Sensornet data on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

913 SERIES MULTIMODE SINGLEMODE

Single Channel Digital Video Transmission System With Up to Three Bi-Directional Multi-Protocol Data Channels



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Digital Frame Sync, and Optical Presence
- Switch Selectable Terminations
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level	1 Vpp (± 3 dB)
I/O Impedance	75 Ohms
Bandwidth	7 MHz
Differential Gain	2%
Differential Phase	0.7°
SNR	65 dB
Connector	BNC

Data:

Choice of:	RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch
Format	Asynchronous
Data Rate	DC to 115Kbit/s
Connector	Terminal Block

Optical (913 Series):

Wavelength	1310/1550 nm
Loss Budget (62.5/125 μ)	12 dB
Maximum Transmission Distance	4 Km
Connector	ST

Optical (913SL Series):

Wavelength	1310/1550 nm
Loss Budget (9/125 μ):	21 dB
Connector	FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)	
Power Consumption	5 Watts
Rack Card (See AFI Part #: SR-20D/2)	
Power Consumption	6 Watts

Size:

Module - 8 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-913	= Module Transmitter
RT-913	= Rack Card Transmitter
MR-913	= Module Receiver
RR-913	= Rack Card Receiver

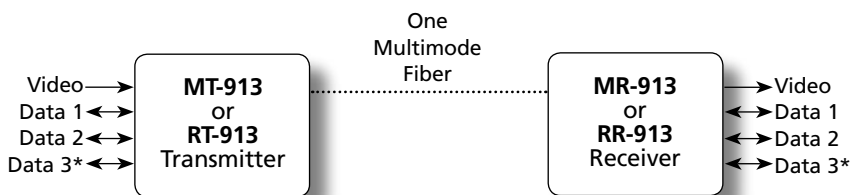
SINGLEMODE ORDERING INFORMATION:

MT-913SL	= Module Transmitter
RT-913SL	= Rack Card Transmitter
MR-913SL	= Module Receiver
RR-913SL	= Rack Card Receiver

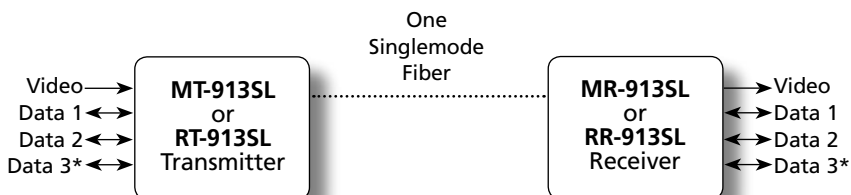


The American Fibertek 913 Series transmits one channel of high-quality, 10 bit digitized video along with up to three channels of bi-directional data on one multimode optical fiber. The 913SL Series transmits one channel of high-quality, 10 bit digitized video along with up to three channels of bi-directional data on one singlemode optical fiber. Available data formats are switch selectable and include: RS422, RS485 (2 or 4 wire), RS232, and Manchester/Bosch. If the first two data channels are both configured as RS485 or Manchester/Bosch, a maximum of two data channels are available. All other configurations support three data channels. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. The "Afinety" remote monitoring system is available on this product, please consult factory.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



* Data 3 not available if Data 1 and Data 2 are both RS485 or Manchester/Bosch.



* Data 3 not available if Data 1 and Data 2 are both RS485 or Manchester/Bosch.

SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

Single Channel Digital Video Transmission System With Bi-Directional Multi-Protocol Data and Contact Closure

**915
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Digital Frame Sync, and Optical Presence
- Switch Selectable Terminations
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch
Format Asynchronous
Data Rate DC to 115Kbit/s
Connector Terminal Block

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Maximum Voltage 100 VDC or Peak AC
Maximum Current 0.5 amp
Connector Terminal Block

Optical (915 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 4 Km
Connector ST

Optical (915SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125 μ) 21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

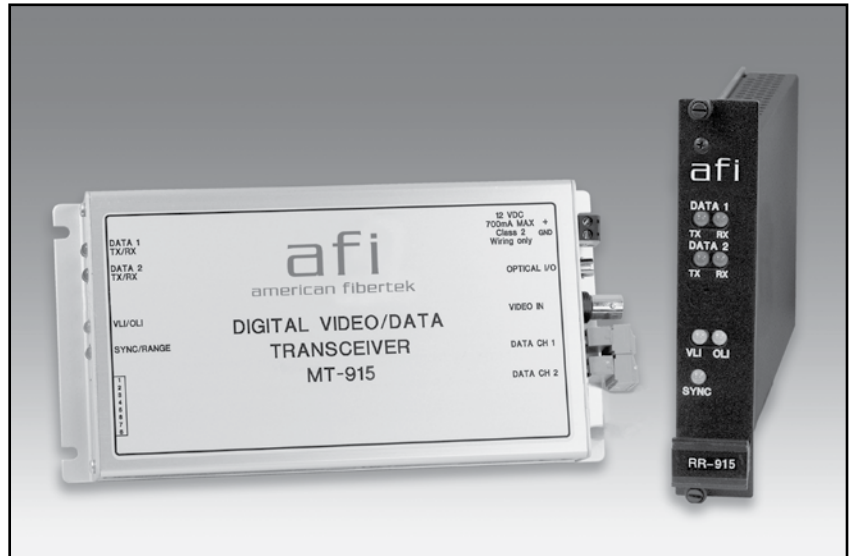
Module - 8 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-915 = Module Transmitter
RT-915 = Rack Card Transmitter
MR-915 = Module Receiver
RR-915 = Rack Card Receiver

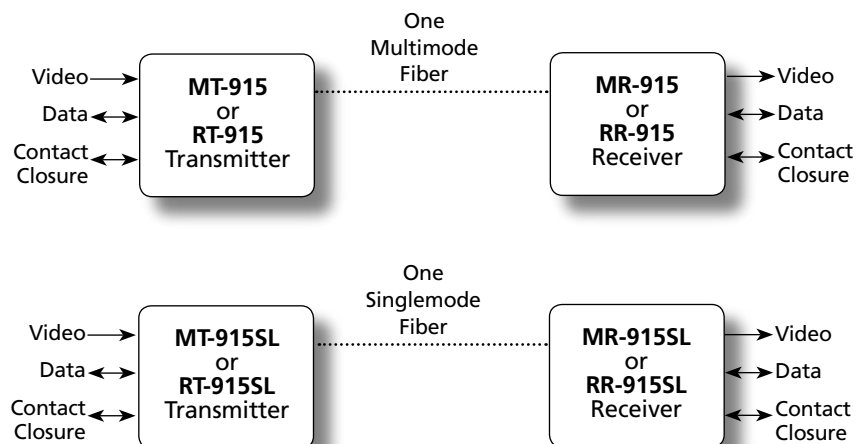
SINGLEMODE ORDERING INFORMATION:

MT-915SL = Module Transmitter
RT-915SL = Rack Card Transmitter
MR-915SL = Module Receiver
RR-915SL = Rack Card Receiver



The American Fibertek 915 Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one multimode optical fiber. The 915SL Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one singlemode optical fiber. Available data formats are switch selectable and include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

940 SERIES MULTIMODE SINGLEMODE

afi

Four Channel Digital Video Transmission System



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:
I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Optical (940 Series):

Wavelength 1310 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 2 Km
Connector ST

Optical (940SL Series):

Wavelength 1310 nm
Loss Budget (9/125 μ) 21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption 7 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 7 Watts
Maximum of 10 rack cards per SR-20D/2

Size:

Module - 8 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-940 = Module Transmitter
RT-940 = Rack Card Transmitter
MR-940 = Module Receiver
RR-940 = Rack Card Receiver

SINGLEMODE ORDERING INFORMATION:

MT-940SL = Module Transmitter
RT-940SL = Rack Card Transmitter
MR-940SL = Module Receiver
RR-940SL = Rack Card Receiver

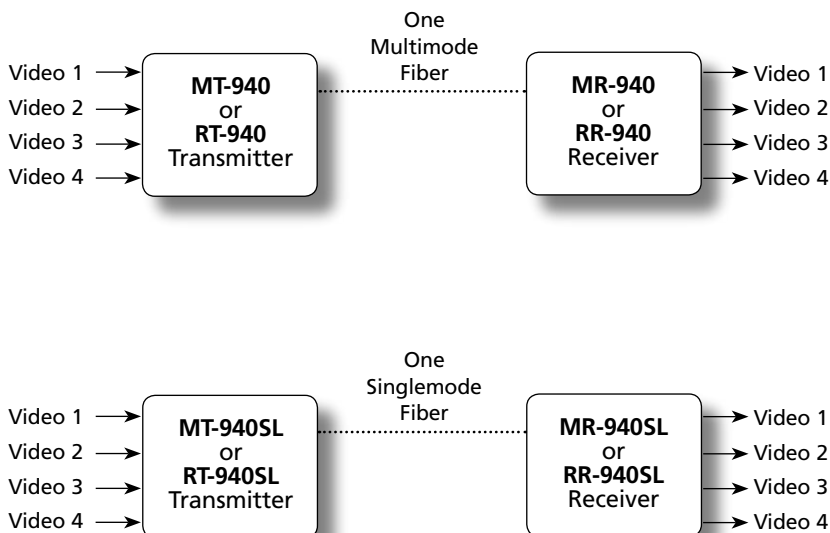
Example: MT-940 to MR-940

Example: MT-940SL to RR-940SL



The American Fibertek 940 Series transmits four channels of high-quality, 10 bit digitized video on one multimode optical fiber. The 940SL Series transmits four channels of high-quality, 10 bit digitized video on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



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american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

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Four Channel Digital Video Transmission System With Bi-Directional Multi-Protocol Data and Contact Closure

**946
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Digital Frame Sync, and Optical Presence
- Full Color, Real Time Video Transmission
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch
Format Asynchronous
Data Rate DC to 115Kbit/s
Connector Terminal Block

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Maximum Voltage 100 VDC or Peak AC
Maximum Current 0.5 amp
Connector Terminal Block

Optical (946 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 2 Km
Connector ST

Optical (946SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125 μ): 21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

Module - 8 $\frac{1}{8}$ " x 4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "
Rack Card - 6 $\frac{1}{2}$ " x 2" x 5"

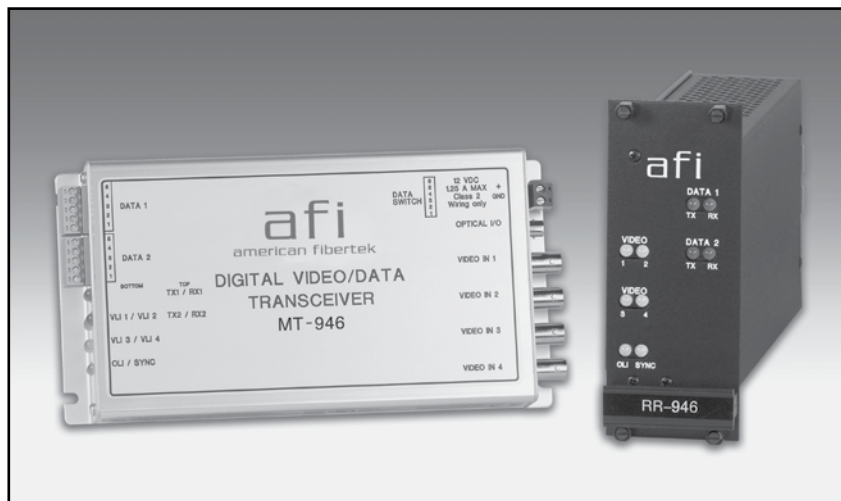
Note: Rack Card Requires Two Slots

MULTIMODE ORDERING INFORMATION:

MT-946 = Module Transmitter
RT-946 = Rack Card Transmitter
MR-946 = Module Receiver
RR-946 = Rack Card Receiver

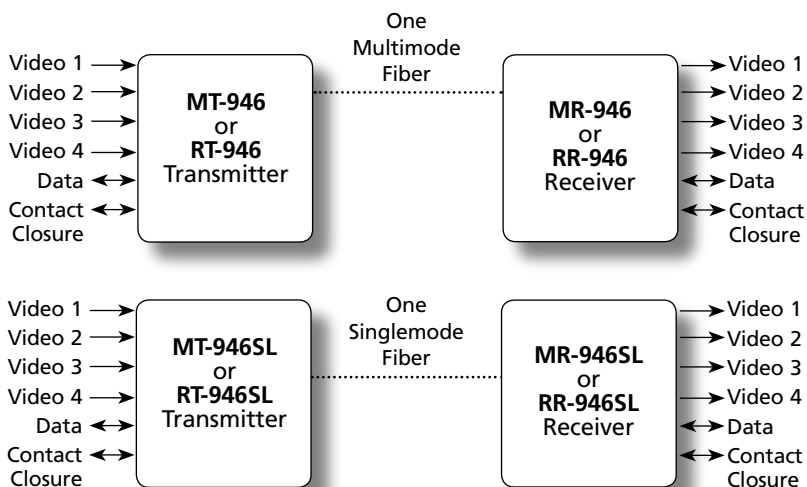
SINGLEMODE ORDERING INFORMATION:

MT-946SL = Module Transmitter
RT-946SL = Rack Card Transmitter
MR-946SL = Module Receiver
RR-946SL = Rack Card Receiver



The American Fibertek 946 Series transmits four channels of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one multimode optical fiber. The 946SL Series transmits four channels of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one singlemode optical fiber. Available data formats are switch selectable and include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

980 SERIES MULTIMODE SINGLEMODE

afi

Eight Channel Digital Video Transmission System



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A and PAL
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Optical (980 Series):

Wavelength 1310 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 1 Km
Connector ST

Optical (980SL Series):

Wavelength 1310 nm
Loss Budget (9/125 μ) 15 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption 12 Watts
1RU High Module/Rack Unit:
Universal Power Input: 100 to 240 VAC
at 47 to 63 Hz, 40 Watts Maximum
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption 13 Watts

Size:

Stand Alone Module - 8 1/8" x 4 1/8" x 2 1/8"
1RU High Module/Rack Unit:
12" Deep x 19" Wide x 1 3/4"
Rack Card - 6 1/2" x 2" x 5"

Note: Rack Card Requires Two Slots

MULTIMODE ORDERING INFORMATION:

MT-980 = Module Transmitter
MRT-980 = Module/Rack Transmitter
RT-980 = Rack Card Transmitter
MR-980 = Module Receiver
MRR-980 = Module/Rack Receiver
RR-980 = Rack Card Receiver

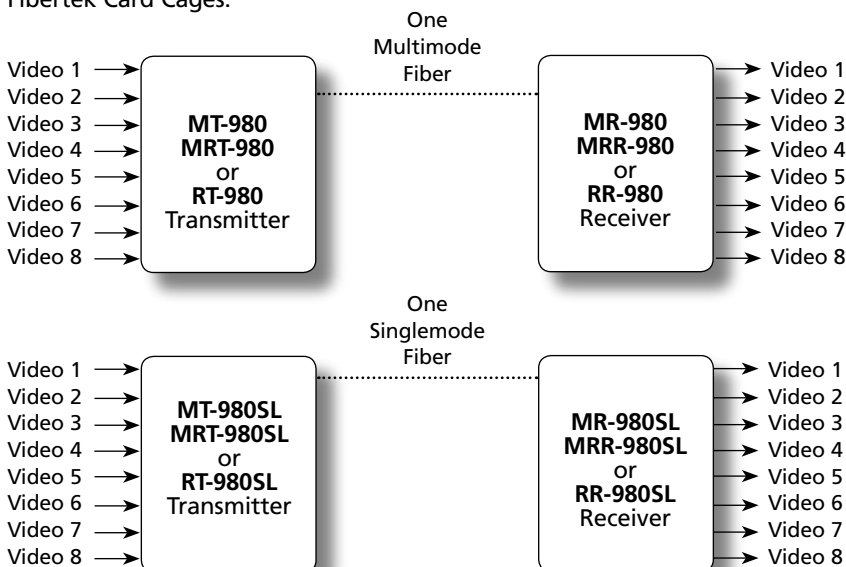
SINGLEMODE ORDERING INFORMATION:

MT-980SL = Module Transmitter
MRT-980SL = Module/Rack Transmitter
RT-980SL = Rack Card Transmitter
MR-980SL = Module Receiver
MRR-980SL = Module/Rack Receiver
RR-980SL = Rack Card Receiver



The American Fibertek 980 Series transmits eight channels of high-quality, 10 bit digitized video on one multimode optical fiber. The 980SL Series transmits eight channels of high-quality, 10 bit digitized video on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules, 1RU units that can be mounted either as stand alone modules or directly into a standard EIA 19" rack, or as rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



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Eight Channel Digital Video Transmission System With Bi-Directional Multi-Protocol Data and Contact Closure

**986
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Data Activity, Frame Sync, and Optical Presence
- Full Color, Real Time Video Transmission
- Available with "Afinety" Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp (± 3 dB)
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch

Format Asynchronous
Data Rate DC to 115Kbit/s
Connector Terminal Block

Contact Closure:

Input Switch Closure to Ground
Output Dry Contact
Response Time 2 ms
Maximum Voltage 100 VDC or Peak AC
Maximum Current 0.5 amp
Connector Terminal Block

Optical (986 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125 μ) 12 dB
Maximum Transmission Distance 1 Km
Connector ST

Optical (986SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125 μ) 15 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

1RU High Module/Rack Unit:
Universal Power Input: 100 to 240 VAC
at 47 to 63 Hz, 40 Watts Maximum
Rack Card (See AFI Part #: SR-20D/2)

Size:

1RU High Module/Rack Unit:
12" Deep x 19" Wide x 1 3/4"
Rack Card - 6 1/2" x 2" x 5"

Note: Rack Card Requires Two Slots

MULTIMODE ORDERING INFORMATION:

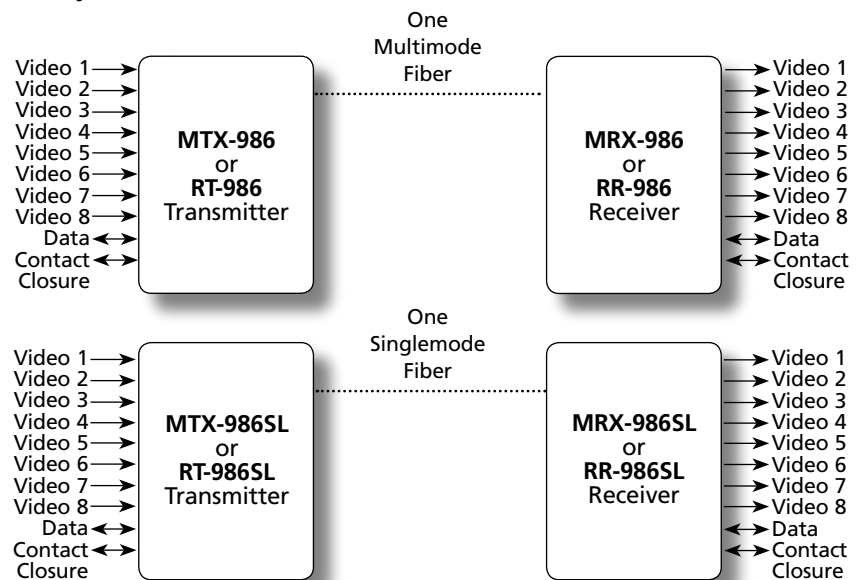
MTX-986 = Module/Rack Transmitter
RT-986 = Rack Card Transmitter
MRX-986 = Module/Rack Receiver
RR-986 = Rack Card Receiver

SINGLEMODE ORDERING INFORMATION:

MTX-986SL = Module/Rack Transmitter
RT-986SL = Rack Card Transmitter
MRX-986SL = Module/Rack Receiver
RR-986SL = Rack Card Receiver



The American Fibertek 986 Series transmits eight channels of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one multimode optical fiber. The 986SL Series transmits eight channels of high-quality, 10 bit digitized video along with one channel of bi-directional data and one channel of bi-directional contact closure on one singlemode optical fiber. Available data formats are switch selectable and include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" intelligent remote monitoring system is available on this product, please consult factory.**



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

91P088 SERIES MULTIMODE SINGLEMODE

afi

Single Channel Digital Video Transmission System With Two Bi-Directional Audio Channels



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance75 Ohms
Bandwidth7 MHz
Differential Gain2%
Differential Phase.....0.7 °
SNR65 dB
Connector BNC

Audio:

I/O Level @ 600 Ohms:0 dBm (typ)
I/O Level @ 600 Ohms:14 dBm (max)
Bandwidth20 Hz to 20 KHz
THD @ 1 KHz0.03%
SNR95 dB @ 14 dBm
Connector Terminal Block

Optical (91P088 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125μ).....12 dB
Maximum Transmission Distance4 Km
ConnectorST

Optical (91P088SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125μ).....21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Power Consumption6 Watts
Rack Card (See AFI Part #: SR-20D/2)
Power Consumption6 Watts

Size:

Module - 8 1/8" x 4 1/8" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-91P088 = Module Transmitter
RT-91P088 = Rack Card Transmitter
MR-91P088 = Module Receiver
RR-91P088 = Rack Card Receiver

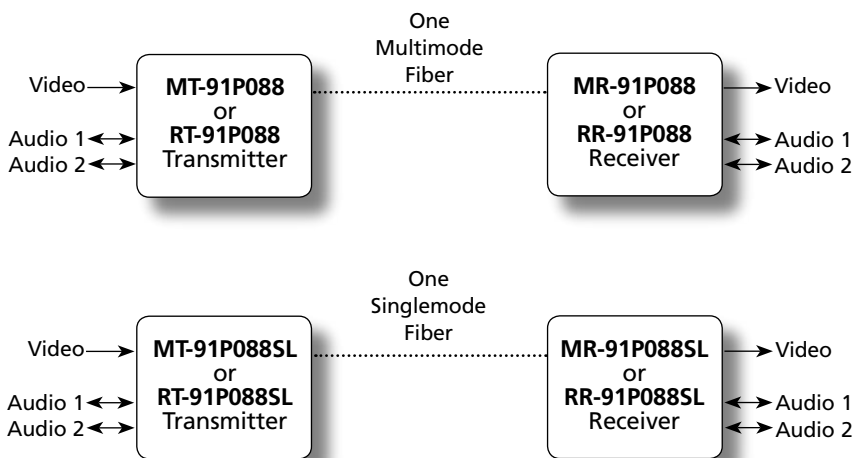
SINGLEMODE ORDERING INFORMATION:

MT-91P088SL = Module Transmitter
RT-91P088SL = Rack Card Transmitter
MR-91P088SL = Module Receiver
RR-91P088SL = Rack Card Receiver



The American Fibertek 91P088 Series transmits one channel of high-quality, 10 bit digitized video along with two channels of bi-directional audio on one multimode optical fiber. The 91P088SL Series transmits one channel of high-quality, 10 bit digitized video along with two channels of bi-directional data on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. The "Afinety" remote monitoring system is available on this product, please consult factory.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

52 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com



Single Channel Digital Video Transmission System With Bi-Directional Audio and Two Multi-Protocol Data Channels

**91P558
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio Activity, Data Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Switch Selectable Terminations
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level 1 Vpp
I/O Impedance 75 Ohms
Bandwidth 7 MHz
Differential Gain 2%
Differential Phase 0.7 °
SNR 65 dB
Connector BNC

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch

Format Asynchronous
Data Rate DC to 115Kbit/s
Connector Terminal Block

Audio:

I/O Level @ 600 Ohms: 0 dBm (typ)
I/O Level @ 600 Ohms: 14 dBm (max)
Bandwidth 20 Hz to 20 KHz
THD @ 1 KHz 0.03%
SNR 95 dB @ 14 dBm
Connector Terminal Block

Optical (91P558 Series):

Wavelength 1310/1550 nm
Loss Budget (62.5/125µ) 12 dB
Maximum Transmission Distance 4 Km
Connector ST

Optical (91P558SL Series):

Wavelength 1310/1550 nm
Loss Budget (9/125µ) 21 dB
Connector FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

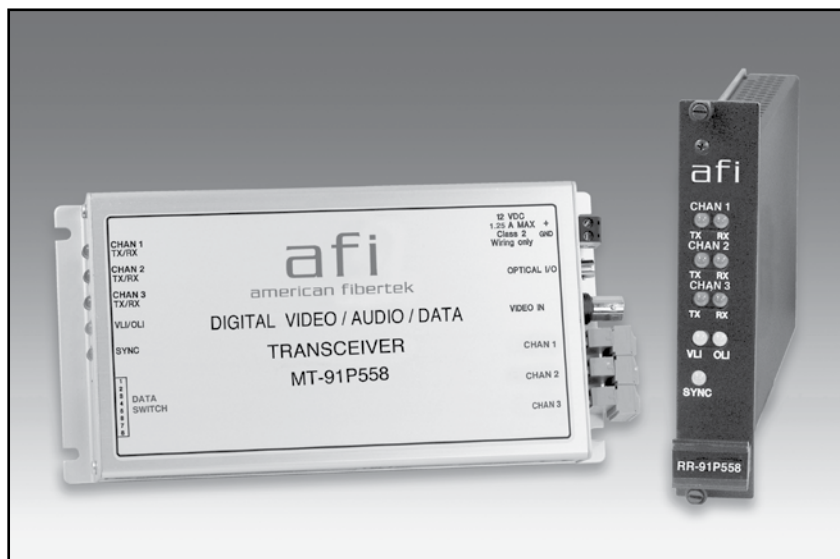
Module - 8 7/8" x 4 1/8" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-91P558 = Module Transmitter
RT-91P558 = Rack Card Transmitter
MR-91P558 = Module Receiver
RR-91P558 = Rack Card Receiver

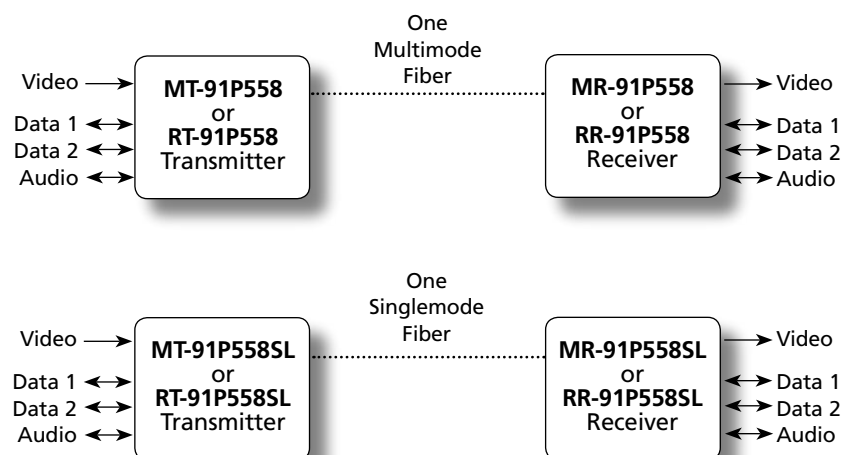
SINGLEMODE ORDERING INFORMATION:

MT-91P558SL = Module Transmitter
RT-91P558SL = Rack Card Transmitter
MR-91P558SL = Module Receiver
RR-91P558SL = Rack Card Receiver



The American Fibertek 91P558 Series transmits one channel of high-quality, 10 bit digitized video along with two channels of Multi-Protocol data and one channel of bi-directional audio on one multimode optical fiber. The 91P558SL Series transmits one channel of high-quality, 10 bit digitized video along with two channels of Multi-Protocol data and one channel of bi-directional audio on one singlemode optical fiber. Available data formats are switch selectable and include: RS422, RS485 (2 or 4 wire), RS232, and Manchester/Bosch. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

91P589 SERIES MULTIMODE SINGLEMODE

afi

Single Channel Digital Video Transmission System With Bi-Directional Audio, Multi-Protocol Data, and Contact Closure



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio, Data and Contact Closure Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Switch Selectable Terminations
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level	.....1 Vpp
I/O Impedance	.....75 Ohms
Bandwidth	.....7 MHz
Differential Gain	.....2%
Differential Phase	.....0.7 °
SNR	.....65 dB
Connector	.....BNC

Data:

Choice of: RS485 (2 or 4 Wire), RS422, RS232, or Manchester/Bosch

Format	.....Asynchronous
Data Rate	.....DC to 115Kbit/s
Connector	.....Terminal Block

Audio:

I/O Level @ 600 Ohms	.....0 dBm (typ)
I/O Level @ 600 Ohms	.....14 dBm (max)
Bandwidth	.....20 Hz to 20 KHz
THD @ 1 KHz	.....0.03%
SNR	.....95 dB @ 14 dBm
Connector	.....Terminal Block

Contact Closure:

Input	.....Switch Closure to Ground
Output	.....Dry Contact
Response Time	.....2 ms
Maximum Voltage	.....100 VDC or Peak AC
Maximum Current	.....0.5 amp
Connector	.....Terminal Block

Optical (91P589 Series):

Wavelength	.....1310/1550 nm
Loss Budget (62.5/125µ)	.....12 dB
Maximum Transmission Distance	.....4 Km
Connector	.....ST

Optical (91P589SL Series):

Wavelength	.....1310/1550 nm
Loss Budget (9/125µ)	.....21 dB
Connector	.....FC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

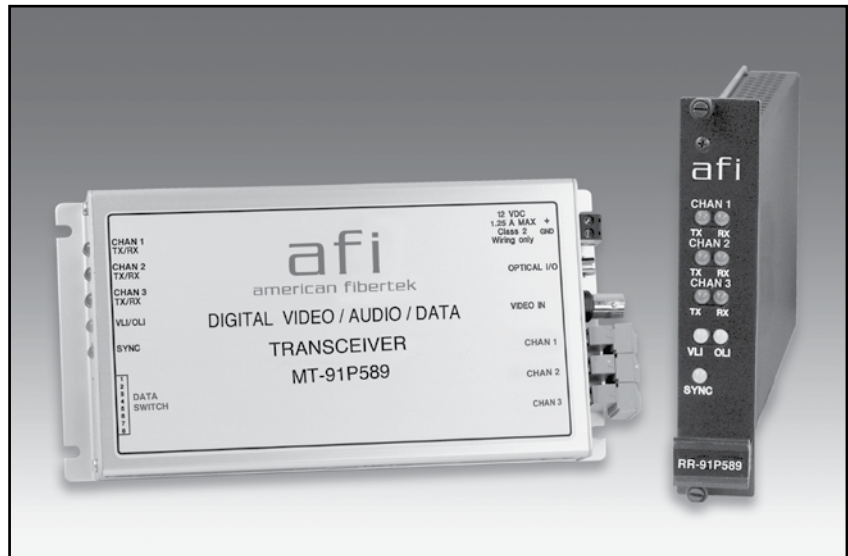
Module - 8 1/8" x 4 1/8" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-91P589 = Module Transmitter
RT-91P589 = Rack Card Transmitter
MR-91P589 = Module Receiver
RR-91P589 = Rack Card Receiver

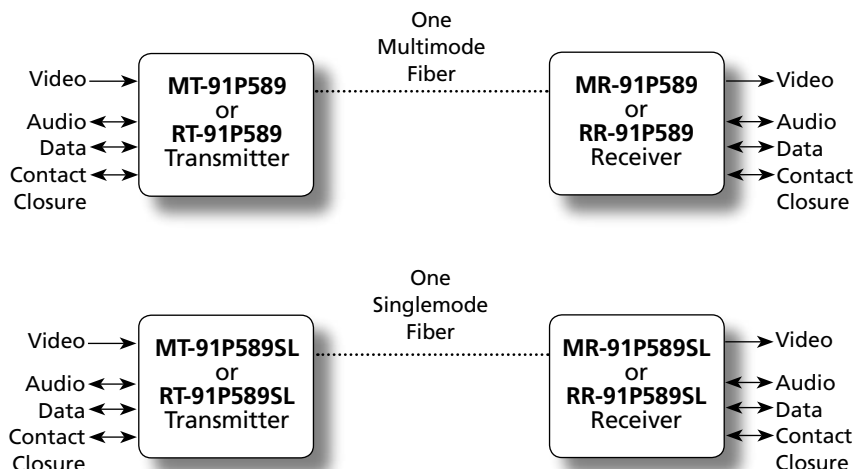
SINGLEMODE ORDERING INFORMATION:

MT-91P589SL = Module Transmitter
RT-91P589SL = Rack Card Transmitter
MR-91P589SL = Module Receiver
RR-91P589SL = Rack Card Receiver



The American Fibertek 91P589 Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, one channel of bi-directional Multi-Protocol data, and one channel of bi-directional contact closure on one multimode optical fiber. The 91P589SL Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, one channel of bi-directional Multi-Protocol data, and one channel of bi-directional contact closure on one singlemode optical fiber. Available data formats are switch selectable and include: RS422, RS485 (2 or 4 wire), RS232, and Manchester/Bosch. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. **The "Afinety" remote monitoring system is available on this product, please consult factory.**

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages.



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

Single Channel Digital Video Transmission System With Bi-Directional Audio and Two Contact Closure Channels

**91P899
SERIES**
**MULTIMODE
SINGLEMODE**



FEATURES:

- Compatible with NTSC; RS-170A & RS-343A, PAL, and SECAM
- 10 Bit Digital Video Transmission
- Diagnostics: Video, DC Power, Audio Activity, Contact Closure Activity, Digital Frame Sync, and Optical Presence
- Serial Digital Transmission
- Available with Enhanced "Afinety" Intelligent Monitoring System

SPECIFICATIONS:

Video:

I/O Level1 Vpp
I/O Impedance75 Ohms
Bandwidth7 MHz
Differential Gain2%
Differential Phase.....0.7 °
SNR.....65 dB
Connector BNC

Audio:

I/O Level @ 600 Ohms:0 dBm (typ)
I/O Level @ 600 Ohms:14 dBm (max)
Bandwidth20 Hz to 20 KHz
THD @ 1 KHz0.03%
SNR.....95 dB @ 14 dBm
Connector Terminal Block

Contact Closure:

Input.....Switch Closure to Ground
OutputDry Contact
Response Time.....2 ms
Maximum Voltage.....100 VDC or Peak AC
Maximum Current.....0.5 amp
Connector Terminal Block

Optical (91P899 Series):

Wavelength1310/1550 nm
Loss Budget (62.5/125μ).....12 dB
Maximum Transmission Distance4 Km
ConnectorST

Optical (91P899SL Series):

Wavelength1310/1550 nm
Loss Budget (9/125μ).....21 dB
ConnectorFC/PC

Temperature (Operating):

-40°C to +75°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
Rack Card (See AFI Part #: SR-20D/2)

Size:

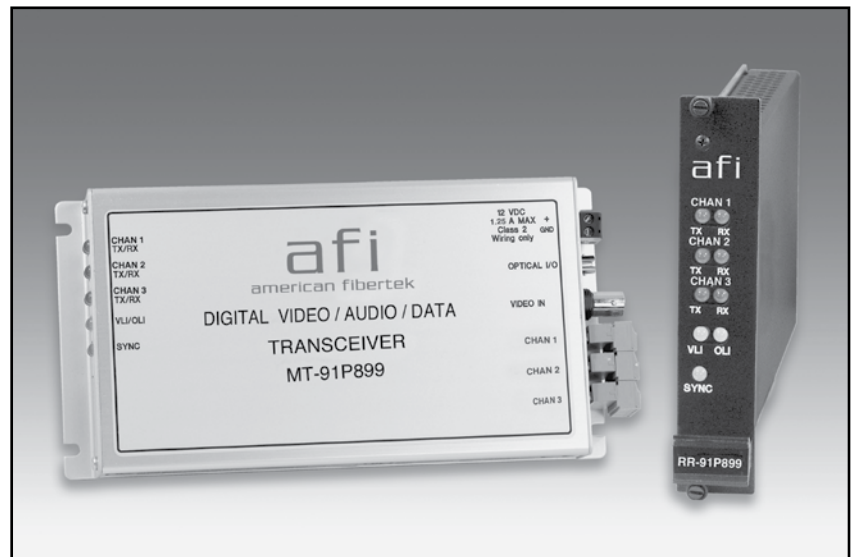
Module - 8 7/8" x 4 1/8" x 1 1/8"
Rack Card - 6 1/2" x 1" x 5"

MULTIMODE ORDERING INFORMATION:

MT-91P899 = Module Transmitter
RT-91P899 = Rack Card Transmitter
MR-91P899 = Module Receiver
RR-91P899 = Rack Card Receiver

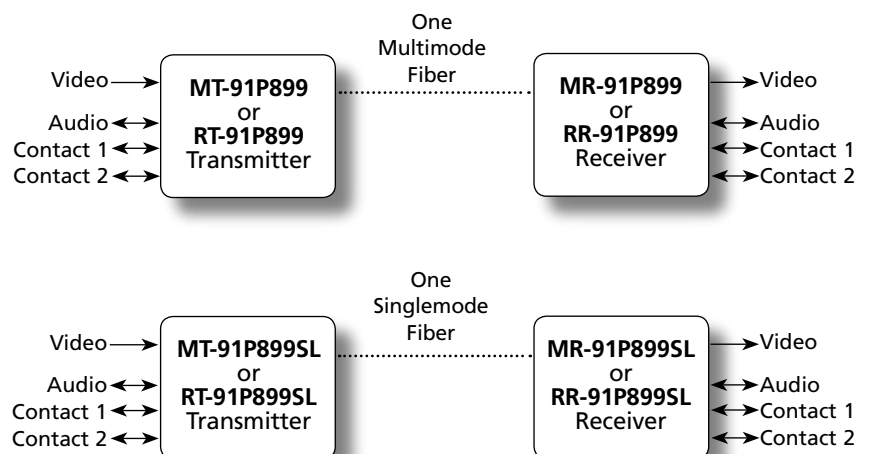
SINGLEMODE ORDERING INFORMATION:

MT-91P899SL = Module Transmitter
RT-91P899SL = Rack Card Transmitter
MR-91P899SL = Module Receiver
RR-91P899SL = Rack Card Receiver



The American Fibertek 91P589 Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, and two channels of bi-directional contact closure on one multimode optical fiber. The 91P589SL Series transmits one channel of high-quality, 10 bit digitized video along with one channel of bi-directional audio, and two channels of bi-directional contact closure on one singlemode optical fiber. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status. The "Afinety" remote monitoring system is available on this product, please consult factory.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20D/2 or SR-20R/1 American Fibertek Card Cages



SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY

SR-20D/2 SERIES SUBRACK

afi

Diagnostic Capable Fiber Equipment Subrack

SR-20D/2 FEATURES:

- Built In AFINETY Diagnostic Capability
- Rear Power Bus to All Plug-in Cards
- 19" EIA Rack Frame Compatible
- 100 Watt DC Power Supply Included
- Holds up to 14 Rack Cards
- Blank Panels Available for 1, 2, or 4 Slots

SPECIFICATIONS:

Power Supply:

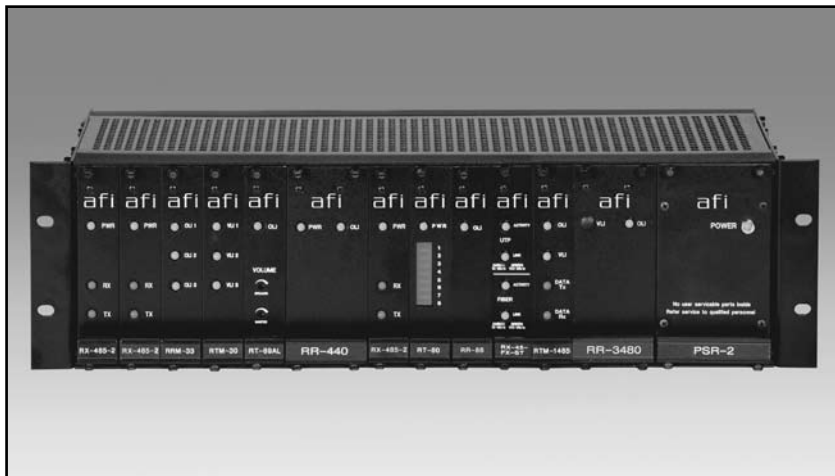
Universal Power Input: 100 to 240 VAC
@ 47 to 63 Hz, 100 Watts Maximum

Temperature (Operating)

-40°C to +74°C, non-condensing

Size:

7 $\frac{5}{8}$ " Deep x 19" Wide x 5 $\frac{1}{4}$ " (3RU) High



The American Fibertek SR-20D/2 Series Fiber Equipment Subrack is a system that can be configured with any combination of American Fibertek products including transmitters, receivers, or transceivers.

When combined with the RD-20D Diagnostic Control Rack Card, the SR-20D/2 Subrack supports the *AFINETY* Diagnostic Monitoring System. The *AFINETY* System allows the intelligent remote monitoring of fiber optic transmission systems and video networks. *AFINETY* has two levels of alarm reporting and can be programmed to email notification of alarms and status changes.

PSR-2 FEATURES:

- Universal Power Input
- High Efficiency, Current Limiting Technology
- 100 Watt DC Switching Power Supply

SPECIFICATIONS:

Power Supply:

Universal Power Input: 100 to 240 VAC
@ 47 to 63 Hz, 100 Watts Maximum

TEMPERATURE (OPERATING)

-40°C to +74°C, non-condensing



[SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY](#)

american fibertek inc. 120 Belmont Drive, Somerset, NJ, USA 08873-1204

56 Phone: 732-302-0660 FAX: 732-302-0667 Toll Free: 877-234-7200 Email: mail@americanfibertek.com

AFINETY Remote Monitor Diagnostic System

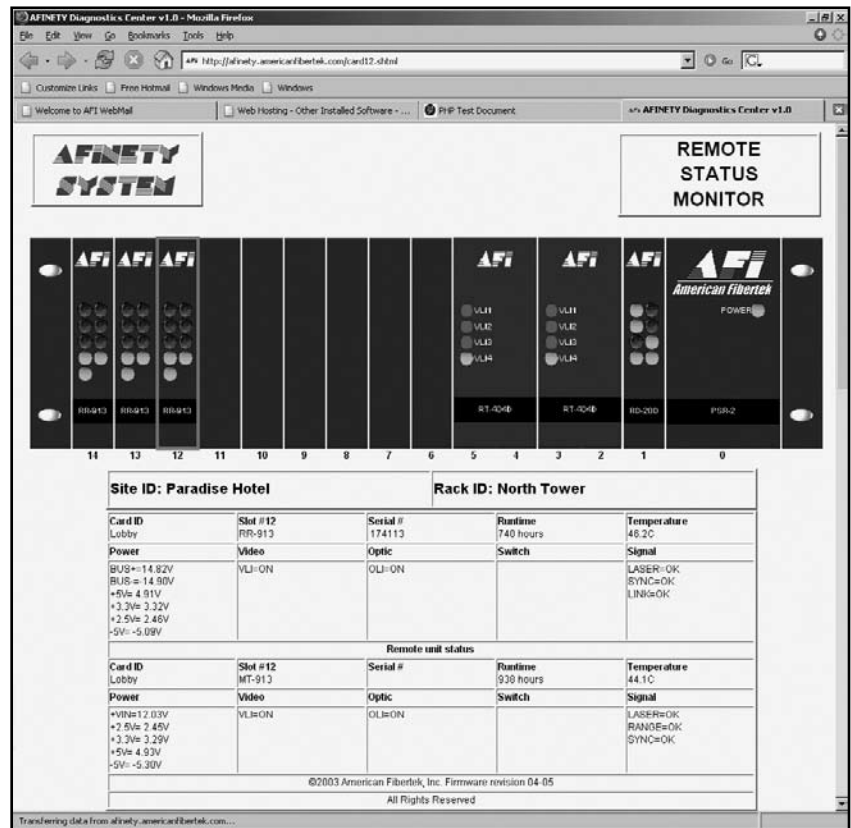
FEATURES:

Provides intelligent remote systems monitoring

- Check Status of your System from any Web access point
- Uses standard internet Browsers
- Collects data from plug-in cards
- Ethernet port for network connectivity
- RS232 Admin Port
- Web browser graphical rack display
- Updates panel information two times per second from entire rack
- User programmable alarm limits
- Primary and secondary alarm levels
- Windows client for direct RS232 connection with graphical display
- Automatic e-mail alarm conditions to responsible personnel

Selecta-Link SERIES PRODUCTS AVAILABLE WITH AFINETY DIAGNOSTICS:

- ◆ 910 Video
- ◆ 911 Video / Sensornet
- ◆ 913 Video / Multi-Protocol Data
- ◆ 915 Video / Multi-Protocol Data / Contact Closure
- ◆ 940 Four Channel Video
- ◆ 946 Four Channel Video / Multi-Protocol Data / Contact Closure
- ◆ 980 Eight Channel Video
- ◆ 986 Eight Channel Video / Multi-Protocol Data / Contact Closure
- ◆ 81 Eight Channel Contact Closure
- ◆ 82 Sixteen Channel Contact Closure
- ◆ 480 Multi-Protocol Data
- ◆ 482 Dual Channel Multi-Protocol Data
- ◆ 91P088 Video / Dual Channel Audio
- ◆ 91P558 Video / Audio / Dual Multi-Protocol Data
- ◆ 91P589 Video / Audio / Multi-Protocol Data / Contact Closure
- ◆ 91P899 Video / Audio / Dual Contact Closure



Now system administrators and authorized security professionals can have access to their fiber optic security system operation from any network computer. The *AFINETY* System is an innovative password protected remote monitoring system that allows instant verification of the status of an American Fibertek digital video system.

AFINETY is compatible with all web browsers with Java-script support including; MS IE, Firefox, Opera and Galleon. *AFINETY* will alert on "hard" or "soft" failures via e-mail. Alarms can be instantly evaluated and tech support can react accordingly.

AFINETY provides a direct ID/status link to each enabled transceiver in the system. Information includes site name and location, the sub-rack ID, the type of device in each sub-rack slot, device serial number and the unit run-time in hours. Status indicators include power, video level, optical loss, temperature, contact closure and signal verification.

Minimum System Components include:

- SR20D/2 Fiber Equipment Rack
- RD20D Controller Card

[SEE WEBSITE FOR CURRENT RoHS PRODUCT AVAILABILITY](#)

The AFI Product Directory is the most comprehensive list of Fiber Optic product available. Our more popular products are found in this **Selecta-Link** catalog and are listed here by page number. The remainder are available for viewing and downloading from our website at www.americanfibertek.com, on our product "CD" and in our full line Catalog. If you have a product requirement that is not listed here, please contact us and let us assist you with your needs.

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 **AVAILABLE IN FULL LINE CATALOG, OR ON WEBSITE & CD.**

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3900	Single Fiber Bi-directional Transceiver, One Way Video & Two Way Contact Closure	24 7
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